

**JACOBSEN**[®]

A Textron Company

Parts & Maintenance Manual

Lightweight Fairway Mower with ROPS

67978 – LF 550[™], Kubota V1505-E3B, 5 Gang 2WD

67979 – LF 550[™], Kubota V1505-E3B, 5 Gang 4WD

67981 – LF 570[™], Kubota V1505-E3B, 5 Gang 2WD

67982 – LF 570[™], Kubota V1505-E3B, 5 Gang 4WD

67980 – LF 550[™] Turbo, Kubota V1505-T-E3B, 5 Gang 4WD

67983 – LF 570[™] Turbo, Kubota V1505-T-E3B, 5 Gang 4WD



WARNING

WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.



JACOBSEN[®]
A Textron Company

When Performance Matters.[™]

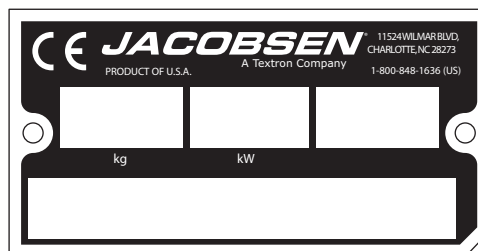
FOREWORD

This manual contains adjustment, maintenance, troubleshooting instructions and parts list for your new Jacobsen machine. This manual should be stored with the equipment for reference during operation.

Before you operate your machine, you and each operator you employ should read the manual carefully in its entirety. By following the safety, operating and maintenance instructions, you will prolong the life of your equipment and maintain its maximum efficiency.

If additional information is needed, contact your Jacobsen Dealer.

The serial plate is located on the left rear frame rail. Jacobsen recommends you record these numbers below for easy reference.



Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Jacobsen suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.

2. Explain where and how to make shipment:

☐ UPS

☐ Regular Mail

☐ Overnight

☐ 2nd Day

3. Order by the quantity desired, the part number, and the description of the part.

4. Send or bring the order to your authorized Jacobsen Dealer.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	557759	Engine Oil Filter		556418	Charge Filter
	5000919	Element, Engine Air Filter		557772	Return Filter
	2500809	Element, Engine Fuel Filter		4131618	Ignition Key
	5002785	Engine Fan Belt		4123183	Headlight Bulb

Service Support Material

Qty.	Part No.	Description
	4229040	Safety & Operation Manual
	4229041	Parts & Maintenance
	4220780	Video, Operator Training
	4179104	Diesel Engine Parts Manual

Qty.	Part No.	Description
	4241262	Service Manual

These are the original instructions verified by
Jacobsen A Textron Company

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Proposition 65 Warning

This product contains or emits chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

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1 SAFETY

1.1 OPERATING SAFETY



WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.

Familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern, and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Safety & Operation Manual, Parts and Maintenance Manual, Engine Manual, and attachments/accessories instruction sheets). If the operator cannot read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location, and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands, and feet. Operate the machine only in daylight or in good artificial light.
6. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.). Enter a new area cautiously. Stay alert for hidden hazards.
9. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders, and damage to property.
10. Do not carry passengers. Keep bystanders and pets a safe distance away.
11. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors, or other protective devices securely fastened in place.
12. Never disconnect or bypass any switch.
13. Do not change the engine governor setting or overspeed the engine.
14. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation or in an enclosed area.
15. Fuel is highly flammable; handle with care.
16. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
17. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
18. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Watch out for traffic when crossing or operating on or near roads.
19. Local regulations may restrict the age of the operator.
20. Operate the machine up and down the face of slopes (vertically), not across the face (horizontally).
21. To prevent tipping or loss of control, do not start or stop suddenly on slopes. Reduce speed when making sharp turns. Use caution when changing directions.
22. Always use the seat belt when operating mowers equipped with a Roll Over Protective Structure (ROPS).
Never use a seat belt when operating mowers without a ROPS.
Accessory operator protective structures will continue to be offered for all equipment currently covered. This allows for the outfitting of any machines without previous ROPS installations or replacement of damaged structures.
23. Keep legs, arms, and body inside the seating compartment while the vehicle is in motion.
24. Disconnect battery and controller electrical connectors before performing any welding on this mower.

This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.

1.2 IMPORTANT SAFETY NOTES



This safety alert symbol is used to alert you to potential hazards.

DANGER - Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING - Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

NOTICE - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage. It may also be used to alert against unsafe practices.

For pictorial clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place.



WARNING

The Interlock System on this mower prevents the mower from starting unless the brake lever is engaged, reel switch is off, and traction pedal is in Neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake or setting the reel switch off.

NEVER operate mower unless the Interlock System is working.



WARNING

1. Before leaving the operator's position for any reason:
 - a. Return traction pedal to Neutral.
 - b. Disengage all drives.
 - c. Lower all implements to the ground.
 - d. Engage parking brake.
 - e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust, or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers, unless a seat is provided for them.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

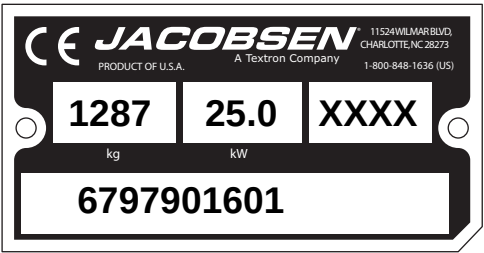
By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service.

2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

- 67978..... LF 550, 2WD with ROPS, uses 5 in. (127 mm) diameter reel
- 67979..... LF 550, 4WD with ROPS, uses 5 in. (127 mm) diameter reel
- 67981..... LF 570, 2WD with ROPS, uses 7 in. (178 mm) diameter reel
- 67982..... LF 570, 4WD with ROPS, uses 7 in. (178 mm) diameter reel
- 67980..... LF 550 Turbo, 4WD with ROPS, uses 5 in. (127 mm) diameter reel
- 67983..... LF 570 Turbo, 4WD with ROPS, uses 7 in. (178 mm) diameter reel
- Serial Number An identification plate, like the one shown, listing the serial number, is attached to the frame of the mower and is located on the operator's right just over the rear axle.



Always provide the serial number of the unit when ordering replacement parts or requesting service information.

EEC Sound Power	Vibration M/S ²	
	Arms	Body
101 dba	3.9	.085

2.2 V1505-E3B ENGINE

- Make Kubota
- Model V1505-E3B diesel, 4 cycle, liquid Cooled
- Horsepower 35.5 Hp (26.4 Kw) @ 3000 rpm
- Displacement 91.4 in.³ (1498 cm³)
- Torque 73 ft. lbs. (99 Nm) @ 2100 rpm
- Fuel:
 - Type #2, low or ultra-low sulfur, diesel
 - Rating Min. cetane rating 45
 - Capacity 17 U.S gal. (64.3 liters)

- Governor Setting:
 - High Idle 3150 rpm
 - Low Idle 1200 rpm
- Lubrication:
 - Capacity 5.5 U.S. qts. (5.2 liter)
 - Type SAE 10W30
 - API Classification CD/CE
- Air Filter Donaldson, dry type with evacuator valve and service indicator
- Alternator 40 Amp

2.3 V1505-T-E3B ENGINE

- Make Kubota
- Model V-1505T-E3B diesel, 4 cycle, liquid cooled
- Horsepower 44.2 Hp (33.0 Kw) @ 3000 rpm
- Displacement 91.4 in.³ (1498 cm³)
- Torque 93 ft. lbs. (1357 Nm)
- Fuel:
 - Type #2, low or ultra-low sulfur, diesel
 - Rating Min. cetane rating 45
 - Capacity 17 U.S gal. (64.3 liters)

- Governor Setting:
 - High Idle 3150 rpm
 - Low Idle 1200 rpm
- Lubrication:
 - Capacity 5.5 U.S. qts. (5.2 liter)
 - Type SAE 10W30
 - API Classification CD/CE
- Air Filter Donaldson, dry type with evacuator valve and service indicator
- Alternator 40 Amp

2.4 MOWER

Tires:

Front 26.5 x 14 - 12: (4 ply)
Rear (S/N 1651~2499).....18 x 9.5 - 8: (4 ply)
Rear (S/N 2500 and Up).....20 x 10 - 8: (4 ply)
Pressure.....10-12 psi (69 - 83 kPa)

Battery:

Type.....12V, 600 Cold Cranking Amps
Group BCI 24

Brakes:

Service Dynamic braking through traction
circuit.

Parking 9.25 in. (235 mm) front disc

Speed:

Mow	0 - 7 mph (0 - 11 kph)
Transport - 2 WD.....	0 - 12 mph (0 -19 kph)
Reverse	0 - 5 mph (0 - 8 kph)
Production.....	5.7 acres/hr. @ 7 mph (2.32 ha/hr. @ 11.3 kph)

Hydraulic System:

Capacity	14 U.S. gal. (53 liter)
Fluid Type	10W30 or Greens Care 68
Cooling	Oil Cooler
Charge Filter	10 micron
Return Line Filter	10 micron
Steering	Hydrostatic power steering

2.5 WEIGHTS AND DIMENSIONS

LF 550

Dimensions:

Dimensions:	Inches	(mm)
Length - With Grass Catchers	120	(3048)
Height - Top of Steering Wheel	89	(2261)
Width - Mow	115	(2921)
Width - Transport.....	87	(2209)

Weights (Mower with reels):

Weights (Mower with reels):	Lbs.	(kg)
67978 Overall (less operator).....	2837	(1287)
67979 Overall (less operator).....	2960	(1343)
67980 Overall (less operator).....	2974	(1349)

LF 570

Dimensions:

Dimensions:	Inches	(mm)
Length - With Grass Catchers.....	121	(3073)
Height - Top of Steering Wheel	89	(2261)
Width - Mow	115	(2921)
Width - Transport	87	(2209)

Weights (Mower with reels):

Weights (Mower with reels):	Lbs.	(kg)
67981 Overall (less operator)	3135	(1422)
67982 Overall (less operator)	3274	(1485)
67983 Overall (less operator)	3284	(1490)

2.6 LF 550 TURBO CUTTING UNITS

Overall Cutting Width 100 in. (2.54 m)
 Number of reels.....Five - three front, two rear
 Reel Diameter 5 in. (127 mm)
 Reel Width.....22 in. (559 mm)

Number of Blades/Reel... 7
Height of Cut 3/8 to 3/4 in. (9.5 to 19 mm)
Frequency of Cut 0.074 in. / 1 mph
(1.88 mm / 1 kph)

2.7 LF 570 CUTTING UNITS

Overall Cutting Width 100 in. (2.54 m)
 Number of Reels Five - three front, two rear.
 Reel Diameter 7 in. (178 mm)
 Reel Width.....22 in. (559 mm)
 Number of Blades/Reel...9 or 11
 Height of Cut 3/8 to 1-1/8 in. (9.5 to 29 mm)

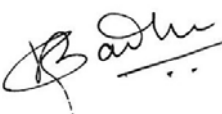
Frequency of Cut:

9 Blade Reel	0.079 in. / 1 mph
	(2.02 mm / 1 kph)
11 Blade Reel.....	0.065 in. / 1 mph
	(1.65 mm / 1 kph)

2 SPECIFICATIONS

2.8 DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY • ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ • PROHLÁŠENÍ O SHODĚ • OVERENSSTEMMELSESERKLÆRING • CONFORMITEITSVERKLARING • VASTAVUSDEKLARATSIOON • VAATIMUSTENMUKAISUUSVAKUUTUS • DECLARATION DE CONFORMITE • KONFORMITÄTSERKLÄRUNG • ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ • MEGFELELŐSÉGI NYILATKOZAT • DICHIARAZIONE DI CONFORMITÀ • ATBILSTĪBAS DEKLARĀCIJA • ATITIKTIES DEKLARACIJA • DIKJARAZZJONI TAL-KONFORMITÀ • DEKLARACJA ZGODNOŚCI • DECLARAÇÃO DE CONFORMIDADE • DECLARAȚIE DE CONFORMITATE • VYHLÁSENIE O ZHODE • IZJAVA O SKLADNOSTI • DECLARACIÓN DE CONFORMIDAD • DEKLARATION OM ÖVERENSSTÄMMELSE	
Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledig adres van de fabrikant • Tootja ärinimi ja täielik address • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmennamen und vollständige Adresse des Herstellers • Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčali u indirizz shiħ tal-fabbrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială și adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produktu kodas • Kodići tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	67978 67979 67981 67982 67980 67983
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenamen • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnev • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Isem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Název stroja • Naziv stroja • Nombre de la máquina • Maskinens namn	LF 550 2WD LF 550 4WD LF 570 2WD LF 570 4WD LF 550 4WD Turbo LF 570 4WD Turbo
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenie • Namen stroja • Descripción • Beteckning	Lawnmower, Article 12, Item 32
Serial Number • Серийн номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer seryjny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	6797801651-6797102500 6797901651-6797202500 6798101651-679802500 6798201651-679802500 6798001651-6798002500 6798301651-6798102500
Engine • Двигател • Motor • Motor • Motor • Mootor • Mootori • Moteur • Motor • Μηχανή • Modulėnė • Motore • Dzinėjs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor	Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-E3B Diesel Kubota V1505-T-E3B Diesel Kubota V1505-T-E3B Diesel
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud neto võimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugh • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 26,5 kW @ 3000 RPM 33 kW @ 3000 RPM 33 kW @ 3000 RPM
Cutting Width • Широчина на рязане • Šírka řezu • Skærebredde • Maai breedte • Lõikelaius • Leikkuleveys • Largeur de coupe • Schnittbreite • Μήκος μιστικής • Vágási szélesség • Larghezza di taglio • Grišanas platums • Pjovimo plotis • Tikkonforma mad-Direttivi • Szerokość cięcia • Largura de Corte • Lățimea de tăiere • Šírka záberu • Širina reza • Anchura de corte • Klippbredd	254 cm
Conforms to Directives • В съответствие с директивите • Splūhuje podmīnky smērnici • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivele • Je v súlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv	2004/108/EC 2006/42/EC 2004/14/EC, 2005/88/EC 2006/66/EC
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • Överensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Floss Imkejjel • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērtais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Floss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hladina akustiského výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå	100 dB(A) LWA
Guaranteed Sound Power Level • Гарантировано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteeritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garanterter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantotas garso stiprumas lygis • Livell tal-Qawwa tal-Floss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro farantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	101 dB(A) LWA
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenetely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Procedura tal-Valutazzjoni tal-Konformità (Floss) • Procedura oceny zgodności (poziom hałas) • Processo de avaliação de conformidade (nível sonoro) • Procedura de evaluare a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI, Part 1

UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/EO • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isonsa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/EK • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK reģistrētā organizācija • JK notifikuotais iestāgs 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného království pre smernicu 2000/14/ES • Britanski priglašeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien	Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Waldingfield Sudbury, Suffolk CO10 0TH
Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Műratase operátori kõrvas • Melutaso käyttäjän korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő fulénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa līmenis pie operatora auss • Dirbančiojo su mašina patiriamas triukšmo lygis • Livell tal-Hoss fil-Widna tal-Operatur • Dopuszczalny poziom hałasu dla operatora • Nivel sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaci na sluch operátora • Raven hrupa pri užesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra	82 dB(a) Leq (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistettut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Ενωµονισµένα πρότυπα που χρησιµοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantoite saskapote standarti • Panaudoti suderinti standartai • Standards armonizzati usati • Normy spóje powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	BS EN ISO 20643 BS EN ISO 5349-1 BS EN ISO 5349-2 BS EN 836
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmät • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιµοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantoite tehničke standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifkazzjonijiet teknici užati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice şi specificaţiile utilizate • Použité technické normy a specifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används	B71.4 ISO 2631-1 SAE J1194
The place and date of the declaration • Място и дата на декларацията • Misto a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklarācijas vieta ir data • Li-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul şi data declaraţiei • Miesto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen	Jacobsen, A Textron Company 11524 Wilmar Blvd. Charlotte, NC 28273, USA November 8th, 2010
Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community. Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържа техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността. Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství. Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret i nærområdet. Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied. Uhenduse registreeris kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik. Sen henkilöön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön. Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté. Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist. Υπογραφή στόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα. A gyártó nevén meghatalmazott személy, akinek jogában áll módosítania a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájli összeállításához, és aki a közösségben letelepedett személy. Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso Della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità. Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā. Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris ją pasirašė, turi visą techninę informaciją ir yra įgaliotas sudaryti techninės informacijos dokumentą. Il-firma tal-persuna awtorizzata li fassal id-dikjarazzjoni f'isem il-fabbrikant, għandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabililita fil-Komunità. Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczonyj ds. wspólnotowych. Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade. Semnătura persoanei împuternicite să elaboreze declarația în numele producătorului, care deține documentația tehnică, este autorizată să compileze dosarul tehnic și este stabilită în Comunitate. Podpis osoby poverenej vystavenim vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve. Podpis osebe, pooblašene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti. Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad. Undertecknas av den som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen.	2006/42/EC Annex II 1.A.2 Tim Lansdell Technical Director Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, IP3 9TT, England 2006/42/EC Annex II 1.A.10  Vasant Godhalekar VP of Engineering November 8th, 2010 Jacobsen, A Textron Company 11524 Wilmar Blvd, Charlotte, NC 28273, USA
Certificate Number • Номер на сертификат • Číslo osvědčení • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikata numurs • Sertifikato numeris • Numru taċ-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer	4229041-Rev A

2 SPECIFICATIONS

2.9 ACCESSORIES

Refer to the Parts Catalog and contact your area Jacobsen Dealer for a complete listing of accessories and attachments.



CAUTION

Use of other than Jacobsen authorized parts and accessories may cause personal injury or damage to the equipment.

MOWER

Orange Touch-up Paint (12 oz. spray)	554598
Canopy / Sunshade	68083
Transport Lock Bars.....	2812147
Hood Locking Latch	1004049
Grass Catcher.....	67891
Premium Seat	4238742
LED Light Kit.....	4238642
Clamp On Light Kit.....	4239502
22 x 3 in. (559 x 76 mm) Grooved Roller	123268
3 in. (76 mm) Grooved Roller Scraper	3006263

REELS

LF 550	
7 Blade, 5in. Diameter Reel - LH	67984
7 Blade, 5 in. Diameter Reel - RH	67985
Vertical Mower -LH	67894
Vertical Mower -RH.....	67895
Front Grooved Roller Scrapers	67831
High Cut Kit - 1-3/16 in.	67917
Turfgroomer - LH	67913
Turfgroomer - RH	67914
Powered Rear Roller Cleaning Brush.....	62820
LF 570	
9 Blade, 7 in. Diameter Reel.....	67987
11 Blade, 7 in. Diameter Reel	67986
Vertical Mower Assembly, 7 in. Diameter	67854
Vertical Mower Lift Yoke Kit	1003361
Powered Rear Roller Cleaning Brush	62821
Front Grooved Roller Scrapers	67831
RH Catcher Mounting Hardware	67919
LH Catcher Mounting Hooks	67920
Turf Groomer - LH	67988
Turf Groomer - RH.....	67989
1-9/16 in. (39.7 mm) High Cut Kit.....	4119320

2.10 SUPPORT LITERATURE

Contact your Jacobsen Dealer for a complete listing of literature.

Safety & Operation Manual.....	4229040
Parts & Maintenance.....	4229041
Engine Parts Catalog	4179104
Operator Training DVD ...	4220780
Service & Repair Manual	4241262

3.1 LCD DISPLAY UNIT (LDU)

The LDU displays current functional values for the operation of the mower, has indicator lights, and sounds audible warning alerts. The LDU operates in one of two modes, Operator Mode (Default) and Maintenance Mode. Use of Maintenance Mode requires a four digit pin number. Refer to **Section 3.1.5** for instructions to access the Maintenance mode, and more detailed LDU information.

Press the black button (V) to move through the display list.

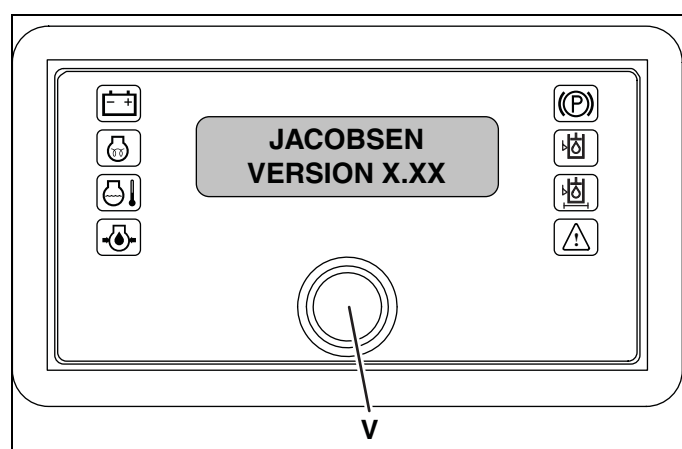


Figure 3A

3.1.1 Indicator Lights

The LDU has eight indicator lights to indicate system functions.



Battery Light: Red battery light located on left side of the LDU indicates the engine alternator is not producing proper voltage. Return unit to service area as soon as possible. Inspect battery and battery charging system.



Glow Plug Light: Yellow glow plug light located on left side of the LDU indicates the diesel engine glow plugs are energized.



Engine Oil Pressure Light: Red engine oil pressure light located on left side of the LDU indicates low engine oil pressure. Shut down unit immediately. Inspect oil level in engine. If oil light remains On with oil at proper level, shut off engine and tow or trailer mower back to a service area. **NEVER** operate engine with oil light On, severe damage to the engine can occur.



Coolant Temperature Light: Red coolant temperature light located on left side of the LDU indicates an coolant temperature above 230° F (110° C). Shut down unit immediately. Remove debris such as leaves and grass clippings that may be restricting air flow through rear screen and radiator. If engine continues to run hot, return mower to a service area.

CAUTION

Diesel engine coolant is under pressure. Turn engine off and allow fluid to cool before checking fluid level or adding coolant to radiator.



Parking Brake Light: Red parking brake light located on right side of the LDU indicates the parking brake switch is engaged. Light will flash when automatic parking brake is engaged.



Hydraulic Oil Level Light: Red hydraulic oil level light located on right side of the LDU indicates a low fluid level in the hydraulic tank. Shut mower down immediately. Visually inspect mower for obvious signs of leaks around connections, hoses, and hydraulic components. Return mower to service area for maintenance.

CAUTION

Hydraulic fluid is under pressure. Shut mower down and allow fluid to cool before checking fluid level, or adding oil to hydraulic tank.



Hydraulic Oil Filter Light: Yellow oil filter light located on right side of the LDU indicates the hydraulic filters need to be replaced. Return mower to service area as soon as possible and replace filters.



Fault Light: Yellow fault light located on right side of the LDU indicates the controller system has detected a fault. See fault message displayed on LCD.

3.1.2 Alarm Codes

In addition to the lights on the LDU, there are eight screen displays that are used to alert the operator or mechanic of a problem the needs to be corrected.

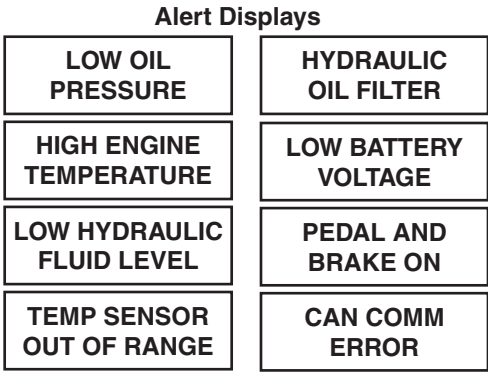


Figure 3B

Low Oil Pressure screen is shown, alarm sounds, reels stop and raise to full up position, and engine oil pressure light turns on if engine oil pressure drops below a safe operating level. Shut mower down immediately. Inspect oil level in engine.

High Engine Temperature screen is shown, alarm sounds, reels stop and raise to full up position, and coolant temperature light turns on when coolant temperature rises above 230° F (110° C). Shut down unit immediately. Remove debris such as leaves and grass clippings that may be restricting air flow through rear screen and radiator.

Low Hydraulic Fluid Level screen is shown, alarm sounds, reels stop and raise to full up position, and oil level light turns on when hydraulic fluid level in tank is low. Visually inspect mower for obvious signs of leaks around connections, hoses, and hydraulic components.

Temp Sensor Out of Range screen is shown, alarm sounds, reels stop and raise to full up position, and caution light turns on when resistance in temperature sender is out of acceptable range. Check for short circuit or breaks in temp sensor wire.

Hydraulic Oil Filter screen is shown and reels stop and raise to full up position when filters need to be replaced. Return mower to service area as soon as possible and replace filters.

Low Battery Voltage screen is shown when system voltage drops below 12 Volts DC. If screen does not turn off once engine starts, or battery light is also on, check the battery charging system.

Pedal and Brake On screen is shown, and alarm sound, when traction pedal is depressed in either direction with parking brake switch engaged. Return traction pedal to Neutral position, and disengage parking brake switch before attempting to drive mower.

CAN Comm Error screen is shown, alarm sounds, and engine stops when error or fault is detected on CAN bus (Controller network).

3.1.3 Diagnostic Screens

As an aid in troubleshooting, the following screens appear if an open circuit or short circuit is detected on the indicated output.

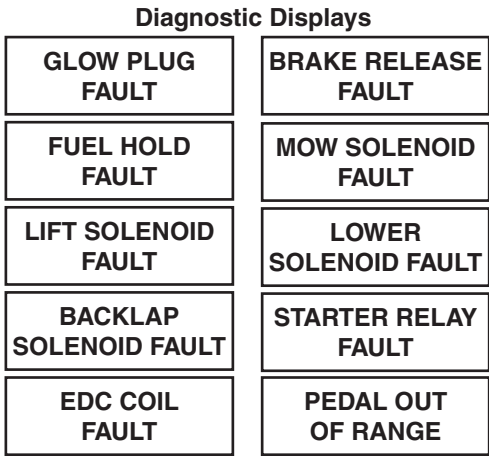


Figure 3C

3.1.4 Operator Mode

When ignition switch is turned to the RUN position, the Jacobsen start-up screen is displayed for five seconds. The start-up screen displays controller software revision levels for the LDU and MCU.

Operator mode is used by the operator to view engine operating hours, engine temperature, and traction configuration. Press the black button (V) on the LDU to toggle between the two displays.

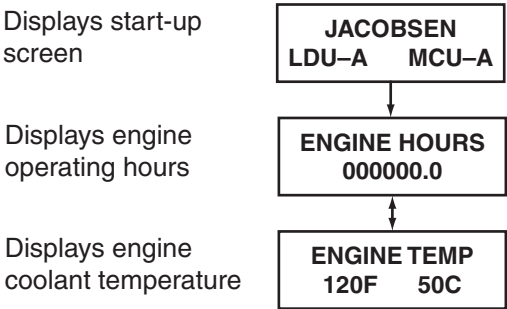


Figure 3D

3.1.5 Maintenance Mode

Maintenance Mode is used by the superintendent to set and adjust functional values for the mower. LCD displays available in Maintenance Mode are, calibrate pedal, set max mow speed, set travel speed, and set reverse speed.

To enter Maintenance Mode, press black button **(V)** until Traction Configuration screen is on the display. Press and hold the black button until enter PIN screen is on display. Use the joystick **(H)** to increase or decrease, and the black button **(J)** to enter the digits for the Mechanic Mode pin.

NOTE: The PIN for Superintendent Mode is **1234**. Operator must be on seat, parking brake switch Engaged, mow switch OFF, and traction pedal in Neutral to enter Maintenance Mode.

Calibrate Pedal: To calibrate the traction pedal, press forward or backward on the joystick **(H)** until the calibrate pedal screen is on the LCD display. With traction pedal in Neutral, press the black button **(J)** to enter set mode.

NOTICE

Before accepting, and moving to the next screen, check value listed on bottom of display. Maximum value that will be accepted by the controller is 216, for both the forward and reverse setting. If value is greater than 216, check pedal for proper stop adjustment before continuing.

Press traction pedal all the way in the forward direction and check value displayed. Adjust forward pedal stop **(S)** until value displayed is between 200 and 205, and press black button **(J)**.

Press traction pedal all the way in the reverse direction and check value displayed. Adjust reverse pedal stop **(T)** until value displayed is between 200 and 205, and press the black button **(J)**. Pedal calibration is complete.

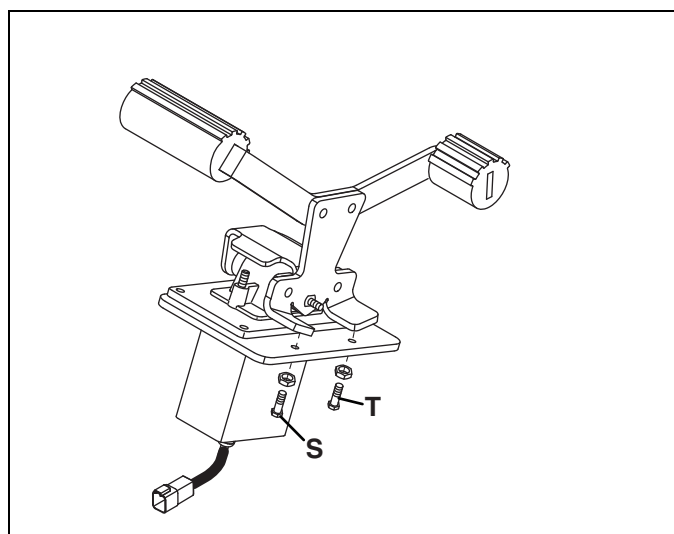


Figure 3E

Mow Speed: To set the maximum mow speed, press forward or backward on the joystick **(H)** until the set max mow speed screen is on the LCD display. Press the black button **(J)** to enter set mode. Pull back on the joystick to raise or push forward on joystick to lower the maximum mow speed to the desired speed. Press the black button to set speed.

Maximum mow speed is adjustable between 3 and 8 MPH (4.8 and 12.8 kph), in 0.5 MPH (0.8 kph) increments. Factory default is 8 MPH.

Travel Speed: To set the maximum travel speed, press forward or backward on the joystick **(H)** until the set max travel speed screen is on the LCD display. Press the black button **(J)** to enter set mode. Pull back on the joystick to raise or push forward on joystick to lower the maximum travel speed to the desired speed. Press the black button to set speed.

Maximum travel speed is adjustable between 3 and 12 MPH (4.8 and 19.3 kph), in 0.5 MPH (0.8 kph) increments. Factory default is 12 MPH.

Cruise Control: To enable or disable cruise control function, press forward or backward on the joystick **(H)** until one of the Cruise Control screens is on the LCD display. Press the black button **(J)** to toggle display between Enabled and Disabled.

Traction Mode: To set the traction mode, press forward or backward on the joystick **(H)** until one of the traction configuration setting screens is on the LCD display. Press the black button **(J)** to toggle between traction mode on and off.

Units Selection: To set the units displayed on the LDU, press forward or backward on the joystick **(H)** until the units setting screen is on the LCD display. Press the black button **(J)** to toggle between English or Metric units.

Switch Status: Displays the current switch settings and is used to diagnose switch problems. A status of 0 indicates the switch is in the OFF position. A status of 1 indicates the switch is in the ON position. Check the wiring and operation of any switch that is not displaying the correct status.

The Switches are broken up into three sets of numbers, with a gap between each set.

The first set of numbers displays the status of the traction pedal (0=Neutral), reel level switch, seat switch, and backlap switch.

The second set of numbers displays the status of the cruise control switch, brake switch, and starter switch.

The third set of numbers displays the status of the mow switch, horn switch, and head light switch.

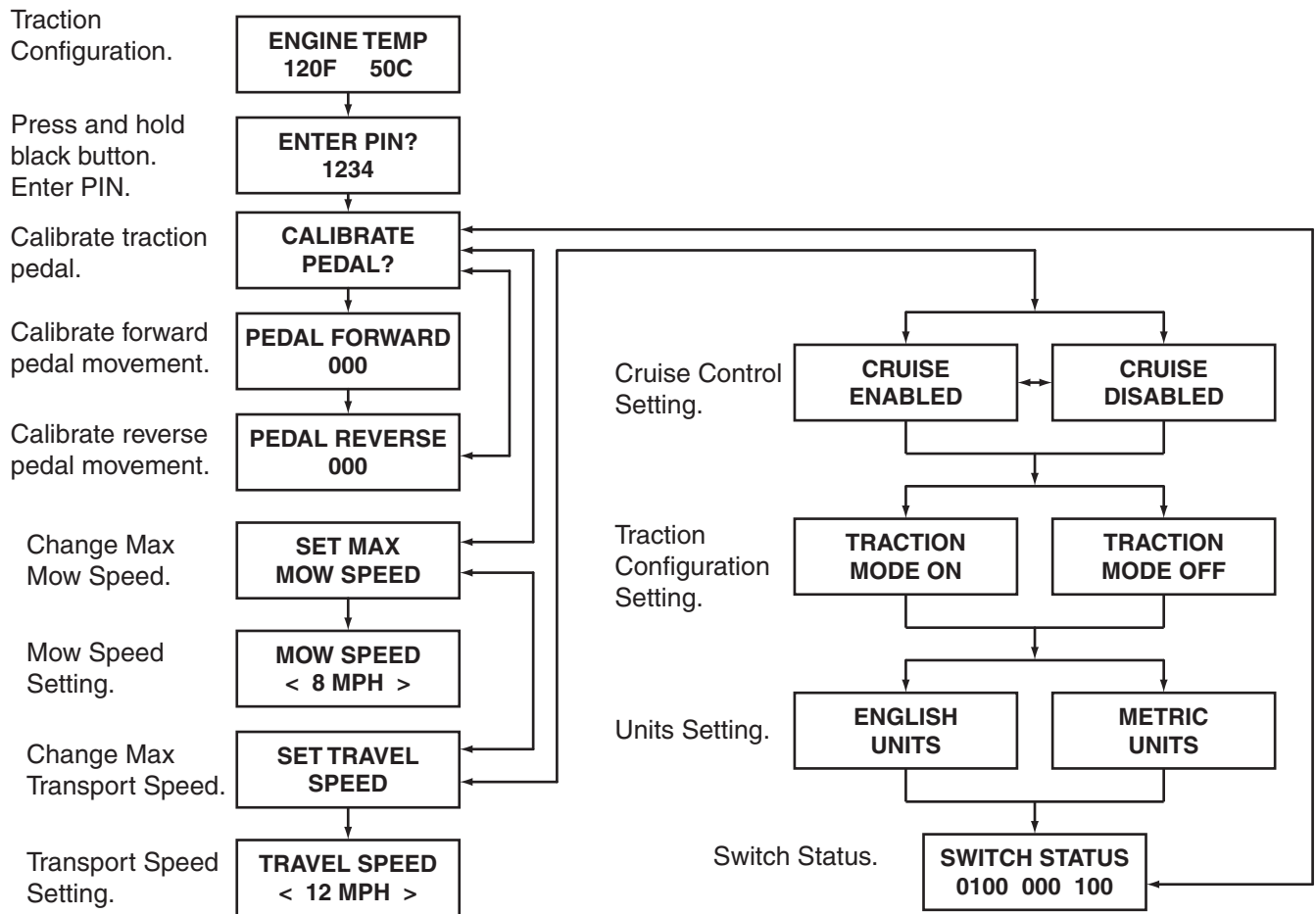


Figure 3F

4.1 GENERAL



WARNING

To prevent injury, lower implements to the ground, disengage all drives, engage parking brake, stop engine, and remove key from ignition switch before making any adjustments or performing maintenance.

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

If only the front or rear of the mower is raised, place chocks in front of and behind the wheels that are not raised.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper

adjustment cannot be made, contact an authorized Jacobsen Dealer.

2. Replace, do not adjust, worn or damaged components.
3. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.



CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

4.2 BEDKNIFE-TO-REEL (Pre-adjustment Check)

1. Check the reel bearings for end play or radial play.
2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.
 - a. The leading edge of the reel blades must be sharp, free of burrs, and show no signs of rounding off.
 - b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
 - c. A flat surface of at least 1/16 in. (1.5 mm) minimum must be maintained on the front face of the bedknife. Use a standard flat file to dress the bedknife.
3. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003 in. (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.
5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.
6. Grass conditions will also affect the adjustment.
 - a. Dry, sparse conditions will require a wider gap to prevent heat buildup and damage to the reel and bedknife.
 - b. High quality grass with a good moisture content requires a closer gap (near zero).

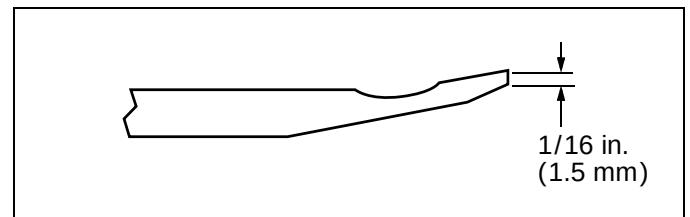


Figure 4A

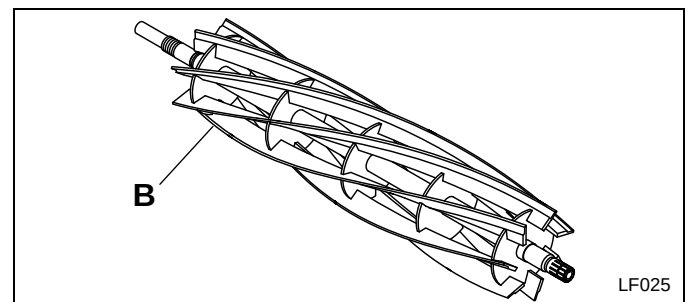


Figure 4B

4 ADJUSTMENTS

4.3 BEDKNIFE ADJUSTMENT

Read **Section 4.2** before making the adjustment.



CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

Start adjustment at leading end of reel, followed by the trailing end. The leading end of the reel blade is that end which passes over the bedknife first during normal reel rotation. (**B-Figure 4B**)

1. Set leading edge of reel. On 7 in. reels use adjuster (**A**), to set the bedknife-to-reel gap. Screw adjuster down (clockwise) to reduce gap.
On 5 in. reels use adjusters (**C, D**) to adjust gap. Loosen bottom screw and turn top screw down to reduce gap.
2. Slide a feeler gauge or shim stock - 0.001 in. to 0.003 in. (0.025 to 0.076 mm) - between the reel blade and the bedknife (**B**). Do not turn the reel.
3. Adjust the trailing end of the reel in the same manner then recheck the adjustment at the leading end.
4. When the reel is properly adjusted to the bedknife, the reel will spin freely and you should be able to cut a piece of newspaper, along the full length of the reel, when the paper is held at 90° to the bedknife.

Note: Avoid excessive tightening or damage may occur to bedknife and reel blades. Reels must turn freely.

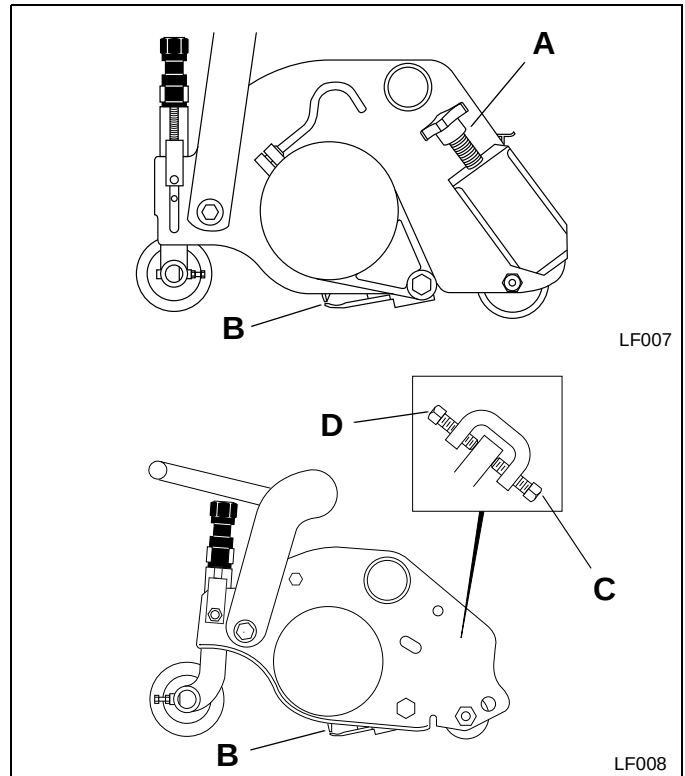


Figure 4C

4.4 CUTTING HEIGHT

Note: Always make the reel-to-bedknife adjustment before adjusting height of cut, **Section 4.2 and 4.3**.

1. Raise mowers to transport position, engage the parking brake, stop engine, and remove key from ignition switch.
2. Set desired cutting height on the gauge (**I**).
 - a. Measure distance between underside of screw head and gauge block surface (**J**).
 - b. Adjust screw (**F**) to obtain desired height then tighten the wing nut.
3. Loosen the hardware on the front roller brackets (**E**) just enough to allow the adjuster to raise or lower the roller.
4. Place gauge (**I**) across bottom of front and rear rollers near one end of roller.
5. Slide the head of gauge screw over the bedknife (**G**) and adjust the hand knob (**H**) to close the gap between the screwhead and bedknife.

Tighten locknut (**E**). Repeat Steps 4 and 5 on opposite end. Complete adjustment to one end before adjusting opposite end.

6. Tighten hardware and recheck each end.

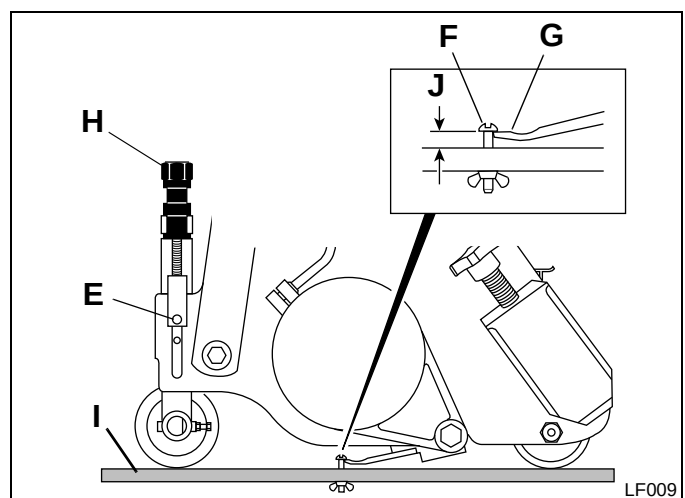


Figure 4D

4.5 FLASH ATTACH™

Installing Cutting units

1. Place each cutting unit in front of its respective lift arm. Raise lift arm and position cutting unit so that yoke (**T**) is in line with swivel housing (**S**). Carefully lower arm onto yoke. Insert pin (**K**) through hole in yoke, fasten retaining clip (**L**), and install cap (**M**).
2. Assemble motors (**N**), with hoses attached, to the cutting units. Clean motor splines and coupling. Apply Moly 2 EP grease to the female spline on reel. Thoroughly clean the motor mounting surface. Slide motor into bearing housing. On 5 in. reels lock motor in place by inserting two motor clips (**O**), with loops facing center of motor, into mounting pins (**P**). On 7 in. reels hand tighten key (**Q**) on bearing housing.
3. Raise reels and install down pressure spring pins (**V**, Figure 4F). If cutting height has not changed, set pins in same position they were in when reels were removed.

Removing Cutting Units

1. Lower reels to the ground and remove down pressure spring pins (**V**, Figure 4F). Make note of where springs are set.
2. On 5 in. reels, remove motor clips (**O**). On 7 in. reels loosen key (**Q**) on motor housing. Pull motor straight out from cutting unit.
3. Carefully place motor and its hoses away from the cutting unit. To prevent contamination and damage to internal components cover or cap off bearing housing cavity (**R**).
4. Remove cap (**M**) on lift arm. Unfasten retaining clip (**L**) from pin (**K**) and remove pin.

5. Carefully raise arm until cutting unit can be removed.

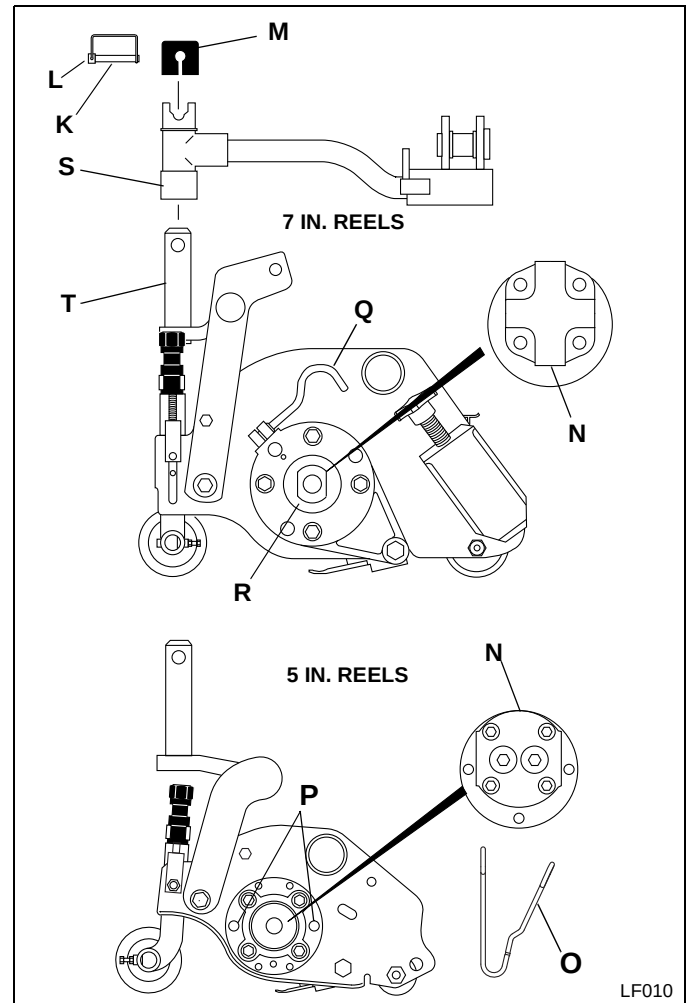


Figure 4E

4.6 DOWN PRESSURE

Each reel is equipped with a down pressure spring. Down pressure improves cutting quality by ensuring consistent contact between the reel and ground. Check and adjust down pressure any time cutting height has been changed or to optimize the cut for best performance.

1. With reels raised, place pin (**V**) in 4th hole from ball joint. Lower reels onto a flat surface before measuring down pressure.
2. Initially set distance between ball joint center and rod cross pin center to 8-15/16 in. $\pm 1/16$ in. (227 mm ± 2 mm). To adjust length, loosen lock nut (**W**) and turn rod (**U**) in or out of ball joint.
3. Measure length of spring as shown on all 5 reels. Record the shortest spring dimension and set the other springs by adjusting rods (**U**) to that dimension $\pm 1/16$

in. (2 mm). The rod cross pin must be horizontal, then tighten locknut (**W**).

4. To adjust down pressure, move pin one hole towards spring to increase pressure, or one hole away from spring to decrease pressure on rear roller.

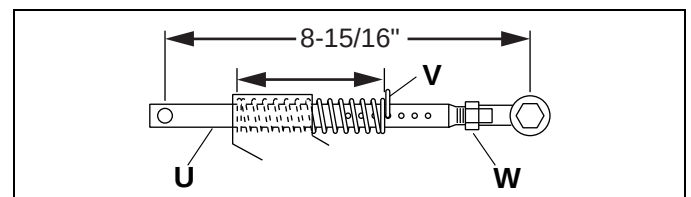


Figure 4F

4 ADJUSTMENTS

4.7 BELT

Inspect and adjust new belt after first ten hours of operation. Adjust every 100 hours thereafter.

Adjust alternator pulley so belt deflects 1/4 to 5/16 in. (6 to 8 mm) with a 20 lb. push at midpoint between pulleys. See engine manual.

If tension is incorrect, loosen alternator mounting bolts **(B)** and adjust alternator until proper belt tension is achieved.

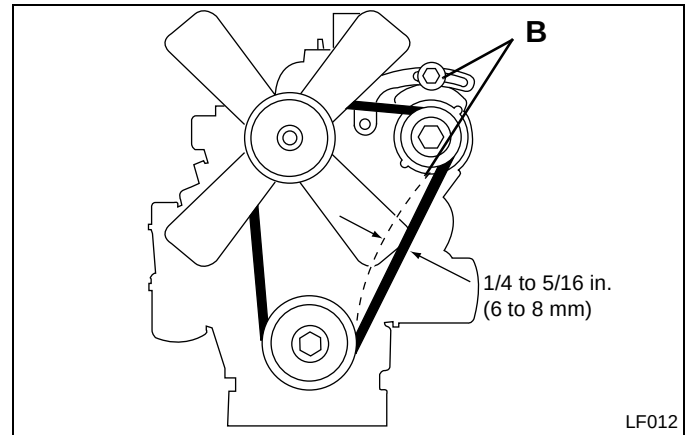


Figure 4G

4.8 FRONT REEL LIMIT SWITCH

The front left lift arm is equipped with a proximity switch, which signals the controller to turn off the reels. The switch is mounted to the mower frame directly behind the lift arm. If reels continue to run when lifted, or do not run when lowered, inspect switch. Adjust or replace switch as needed.

To adjust switch:

1. Park mower on a flat, level surface.
2. Remove reel from lift arm.
3. Turn ignition key to the RUN position to activate controller. Do not run reels or start engine.
4. Adjust switch as required to obtain air gap between switch and arm of 1/8 to 3/16 in. (3 to 5 mm).
5. Lift arm manually until it is at an angle of 17°.
6. With lift arm at 17°, adjust switch **(I)** up or down, until switch contacts close. Secure switch in this position.
7. Start engine and check that reels turn off when raised.

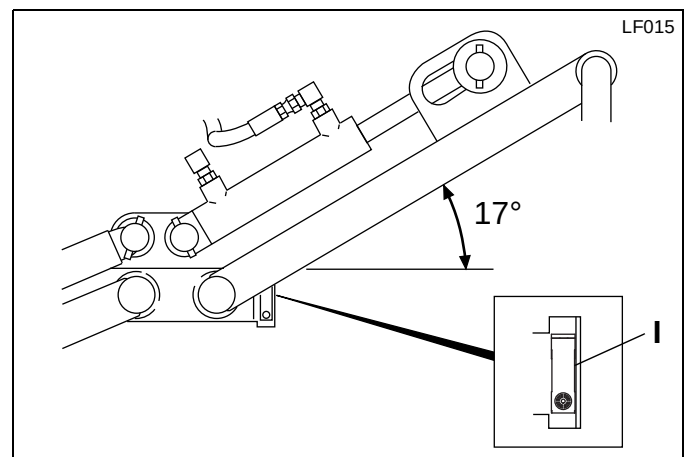


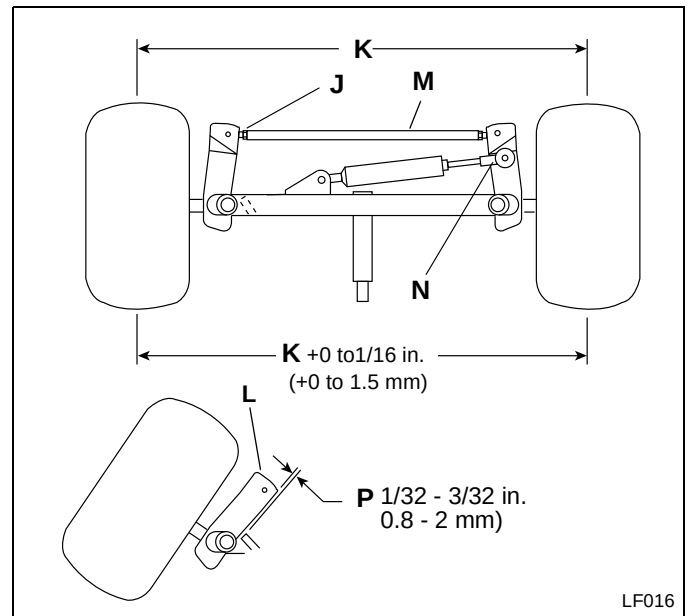
Figure 4H

NOTICE

The proximity switch sets the point where the reels turn off, not how high they will raise. The reels will actually raise to a position slightly above 17°.

4.9 STEERING TOE-IN

1. Turn wheels to straight ahead position.
2. Loosen jam nuts (**J**) on both sides of tie rod (**M**).
3. Turn tie rod (**M**) to provide proper toe-in. Toe-in must not exceed +1/16 in. (1.5 mm) (**K**). Retighten jam nuts.
4. After adjusting tie rod, adjust steering cylinder by threading the rod (**N**) in or out of ball joint so spindle arm (**L**) clears the stop on the axle by 1/32 to 3/32 in. (0.8 to 2 mm) (**P**) when cylinder is fully extended.



LF016

Figure 4I

4.10 ARMREST HEIGHT ADJUSTMENT

The armrest has four available height settings for operator convenience. To adjust armrest height:

1. Shut mower off and remove key.
2. Remove three bolts (**V**) from bracket on right side of seat.
3. Raise or lower armrest as needed until another set of holes in armrest bracket line up with seat bracket. Assemble hardware (**V**).
4. After adjusting height, check armrest wire harness connector for a tight connection to main harness.

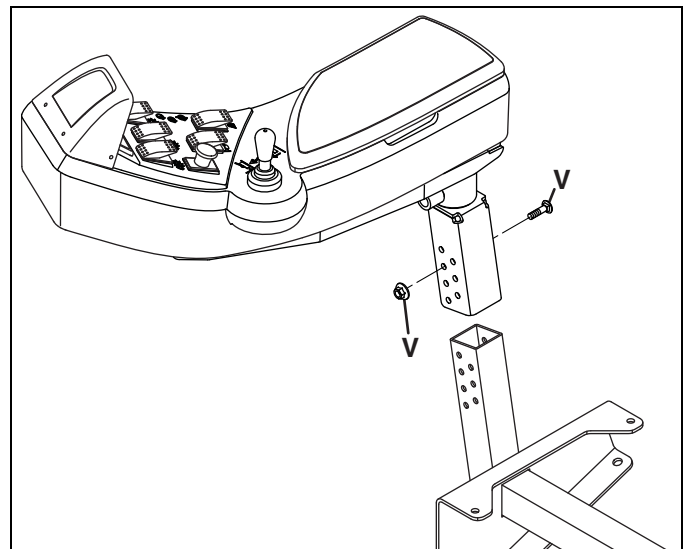


Figure 4J

4 ADJUSTMENTS

4.11 ARMREST PIVOT

1. Tighten or loosen pivot plunger (**W**) as required so plunger button stops the armrest at both ends of armrest pivot slots, and plunger body does not contact armrest pivot. Do not use plunger to increase pivot tension.
2. Adjust hardware (**X**) as required to obtain 2 to 6 lbs (9 to 26.7 N) of force required, at visor end of armrest, to pivot armrest. Do not overtighten pivot hardware or leave too loose.

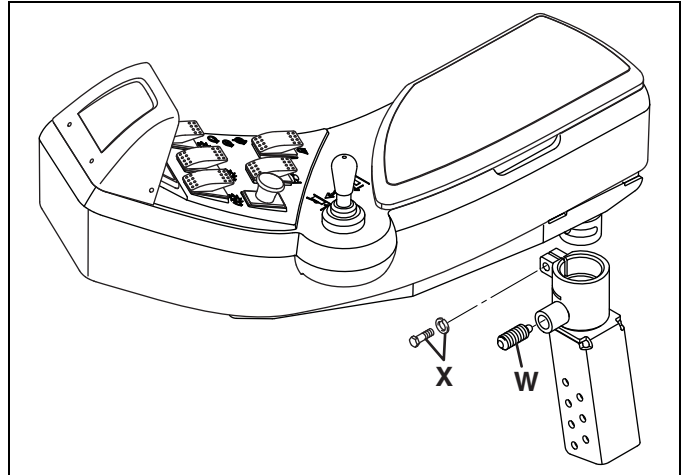


Figure 4K

4.12 TORQUE SPECIFICATION

NOTICE

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

AMERICAN NATIONAL STANDARD FASTENERS

SIZE	UNITS					SIZE	UNITS				
		Lubricated	Dry	Lubricated	Dry			Lubricated	Dry	Lubricated	Dry
#6-32	in-lb (Nm)	—	20 (2.3)	—	—	7/16-14	ft-lb (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
#8-32	in-lb (Nm)	—	24 (2.7)	—	30 (3.4)	7/16-20	ft-lb (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105)
#10-24	in-lb (Nm)	—	35 (4.0)	—	45 (5.1)	1/2-13	ft-lb (Nm)	57 (77.2)	75 (101)	80 (108)	107 (145)
#10-32	in-lb (Nm)	—	40 (4.5)	—	50 (5.7)	1/2-20	ft-lb (Nm)	64 (86.7)	85 (115)	90 (122)	120 (162)
#12-24	in-lb (Nm)	—	50 (5.7)	—	65 (7.3)	9/16-12	ft-lb (Nm)	82 (111)	109 (148)	115 (156)	154 (209)
1/4-20	in-lb (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lb (Nm)	92 (124)	122 (165)	129 (174)	172 (233)
1/4-28	in-lb (Nm)	85 (9.6)	115 (13.0)	120 (13.5)	163 (18.4)	5/8-11	ft-lb (Nm)	113 (153)	151 (204)	159 (215)	211 (286)
5/16-18	in-lb (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lb (Nm)	128 (173)	170 (230)	180 (244)	240 (325)
5/16-24	in-lb (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lb (Nm)	200 (271)	266 (360)	282 (382)	376 (509)
3/8-16	ft-lb (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lb (Nm)	223 (302)	298 404	315 (427)	420 (569)
3/8-24	ft-lb (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lb (Nm)	355 (481)	473 (641)	500 (678)	668 (905)

METRIC FASTENERS

SIZE	UNITS									Non Critical Fasteners into Aluminum
		Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	
M4	Nm (in-lb)	—	—	—	—	—	—	3.83 (34)	5.11 (45)	2.0 (18)
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910)	4.0 (35)
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125 (92)	110 (81)	147 (108)	61.0 (45)
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105 (77)	140 (103)	150 (110)	200 (147)	175 (129)	234 (172)	94.9 (70)

5 MAINTENANCE

5.1 GENERAL

WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine, and remove key from ignition switch to prevent injuries

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule, and keep detailed records.
 - a. Keep the equipment clean.

- b. Keep all moving parts properly adjusted and lubricated.
 - c. Replace worn or damaged parts before operating the machine.
 - d. Keep all fluids at their proper levels.
 - e. Keep shields in place and all hardware securely fastened.
 - f. Keep tires properly inflated.
3. Do not wear jewelry or loose fitting clothing when making adjustments or repairs.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state, or federal regulations.

5.2 ENGINE

IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this mower. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

During the break-in period, Jacobsen recommends the following:

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.

5.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap, and add oil as required.

Perform initial oil change after first 50 hours of operation and every 100 hours thereafter. See Engine Manual.

2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 50 hours of operation.
4. Check and adjust fan and alternator belts.
5. Refer to **Section 7.2** and Engine Manual for specific maintenance intervals.

If the injection pump, injectors, or the fuel system require service, contact an authorized Jacobsen Dealer.

NOTICE

The mower is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.

Use only engine oils with API classification CD/CE.

Above 77°F (25°C)	SAE 30W or SAE 10W30/10W40
32 to 77°F (0 to 25°C)	SAE 20W or SAE 10W30/10W40
Below 32° (0°C)	SAE 10W or SAE 10W30/10W40

5.4 AIR FILTER

Check the service indicator daily. If red band appears in the window **(B)** replace the element.

Do not remove the element for inspection or cleaning. Unnecessary removal of the filter increases the risk of injecting dust and other impurities into the engine.

When service is required, first clean the outside of the filter housing, remove the old element as gently as possible, and discard.

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not use a damaged element and never use an incorrect element.
3. Assemble the new element and make sure it seats properly. Reset the indicator by depressing button **(A)**.

4. Reassemble cap making sure it seals completely around the filter housing. Dust evacuator must be facing down.
5. Check all hoses and air ducts. Tighten hose clamps.

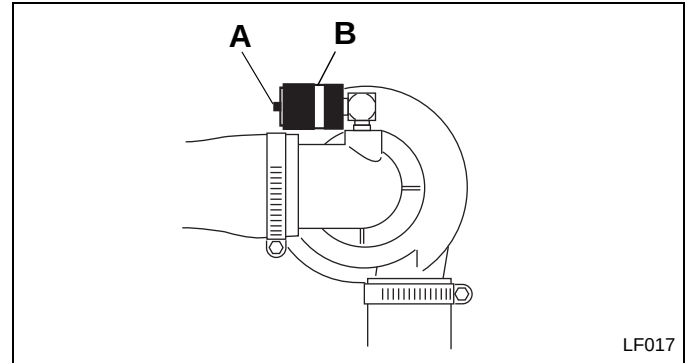


Figure 5A

5.5 FUEL

Handle fuel with care - it is highly flammable. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.



WARNING

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

- Fill the fuel tank to within 1 in. (25 mm) below the filler neck.
- Use clean, fresh, #2 low or ultra-low sulfur diesel fuel. Minimum Cetane Rating 45. Refer to Engine Manual for additional information.
- Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.
- Store fuel according to local, state, or federal ordinances and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.

5.6 FUEL SYSTEM

Refer to **Section 7.2** for specific maintenance intervals.

Before replacing any filter, thoroughly clean the filter housing, and the area around the filter. Dirt must not be allowed to enter into fuel system.

Bleed the fuel system after the fuel filter and lines have been removed, or the fuel tank has become empty. See Engine Manual.

To change fuel filter:

1. Close fuel valve on tank and remove and discard the existing filter.
2. Apply a light coat of oil to the gasket and hand tighten new filter.
3. Fill fuel tank. Open fuel valve on tank and bleed the filter. See Engine Manual.

5 MAINTENANCE

5.7 BATTERY

Make absolutely certain the ignition switch is OFF and the key has been removed before servicing the battery.



CAUTION

Always use insulated tools, wear protective glasses or goggles, and protective clothing when working with batteries. You must read and obey all battery manufacturer's instructions.

Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep vent caps and terminal covers in place.

Check the electrolyte level every 100 hours. Keep the cable ends, battery and battery posts clean.

Disconnect battery cables, armrest, and controller connections before performing welding operations on mower.

Verify battery polarity before connecting or disconnecting the battery cables.

1. When installing the battery, always assemble the RED, positive (+) battery cable first, and the ground, BLACK, negative (-) cable last.
2. When removing the battery, always remove the ground, BLACK, negative (-) cable first, and the RED, positive (+) cable last.
3. Make sure battery is properly installed and secured to the battery tray.



WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

5.8 JUMP STARTING

Before attempting to "jump start" the mower, check the condition of the discharged battery. **Section 5.7**



WARNING

Batteries generate explosive hydrogen gas. To reduce the chance of an explosion, avoid creating sparks near battery. Always connect the negative jumper cable to the frame of the mower with the discharged battery, away from the battery.

When connecting jumper cables:

1. Stop the engine on vehicle with good battery.
2. Connect RED jumper cable to the positive (+) terminal on the good battery and to the positive (+) terminal on the "discharged" battery.
3. Connect the BLACK jumper cable from the negative (-) terminal on the good battery to the **frame** of mower with discharged battery.

After cables have been connected, start the engine on the vehicle with the good battery, then start the mower.

5.9 CHARGING BATTERY



WARNING

Charge battery in a well ventilated area. Batteries generate explosive gases. To prevent an explosion, keep any device that may create sparks or flames away from the battery.

To prevent injury, stand away from battery when the charger is turned on. A damaged battery could explode.

2. Whenever possible, remove the battery from the mower before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.
3. Make sure the charger is OFF, then connect the charger to the battery terminals as specified in the charger's manual.
4. Always turn the charger OFF before disconnecting charger from the battery terminals.

1. Refer to **Section 5.7**. Read the Battery and Charger's manual for specific instructions.

5.10 MUFFLER AND EXHAUST



WARNING

Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.

NEVER operate an engine without proper ventilation.

To protect from carbon monoxide poisoning, inspect the complete exhaust system regularly, and always replace a defective muffler.

If you notice a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware evenly. Tighten or replace exhaust clamps.

5.11 HYDRAULIC HOSES



WARNING

To prevent serious injury from hot, high pressure oil, never use your hands to check for oil leaks, use paper or cardboard.

Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin. If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

IMPORTANT: The hydraulic system can be permanently damaged if the oil becomes contaminated. Before disconnecting any hydraulic component, clean the area around the fittings and the hose ends to keep impurities out of the system.

1. Always lower implements to ground, disengage all drives, engage parking brake, stop engine, and remove key before inspecting or disconnecting hydraulic lines or hoses.
2. Check visible hoses and tubes daily. Look for wet hoses or oil spots. Replace worn or damaged hoses and tubes before operating the machine.
3. The replacement tube or hoses must be routed in the same path as the existing hose, do not move clamps, brackets, or ties to a new location.
4. Thoroughly inspect all tubes, hoses, and connections every 250 hours.

- a. Before disconnecting any hydraulic component, tag or mark the location of each hose, then clean the area around the fittings.
- b. As you disconnect the component, be prepared to assemble plugs or caps to the hose ends and open ports. This will keep impurities out of the hydraulic system and also prevent oil spills.
- c. Make sure "O" rings are clean and hose fittings are properly seated before tightening.
- d. Keep the hose from twisting. Twisted hoses can cause couplers to loosen as the hose flexes during operation resulting in oil leaks.
- e. Kinked or twisted hoses can restrict the oil flow causing the system to malfunction and the oil to overheat and also lead to hose failure.

5.12 HYDRAULIC OIL

Refer to **Section 7.2** for specific maintenance intervals.

Drain and replace the hydraulic oil after a major component failure, or if you notice the presence of water or foam in the oil, or a rancid odor (indicating excessive heat).

Always replace both hydraulic filters when oil filter light stays on or when changing oil.

To change hydraulic oil:

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
2. Remove drain plug from bottom of tank.

3. After oil has drained install drain plug and fill with Jacobsen Hydraulic oil.
4. Purge air from system.
 - a. To prevent reels from overheating, disconnect motors from reels.
 - b. Operate all mower functions for about 5 minutes to purge air out of the system and stabilize the oil level. During this time, the oil level alarm may sound.
 - c. Once the level has stabilized and the air is purged, fill the tank to the full mark on dipstick. Start engine and check that oil alarm remains off.

5 MAINTENANCE

5.13 HYDRAULIC FILTERS

The hydraulic system is protected by two 10 micron filters, a charge filter **(B)** and return line filter **(A)**. Flow through the filters is monitored during operation. When pressure drop across the filters is too high the hydraulic oil filter warning light will come on. To ensure continued protection to the hydraulic system, replace both filters as soon as possible after light comes on.

NOTICE

During cold weather the warning light may come on until oil has warmed up to operating temperature. Wait until oil has warmed up and light goes out before operating mower.

To replace hydraulic filters:

1. Remove the old filters.
2. Install new filters. Hand tighten only.

3. Operate engine at idle speed with hydraulic system in neutral for five minutes. The oil level alarm may sound during this time.
4. Check hydraulic oil level in reservoir and fill to full mark on dipstick.

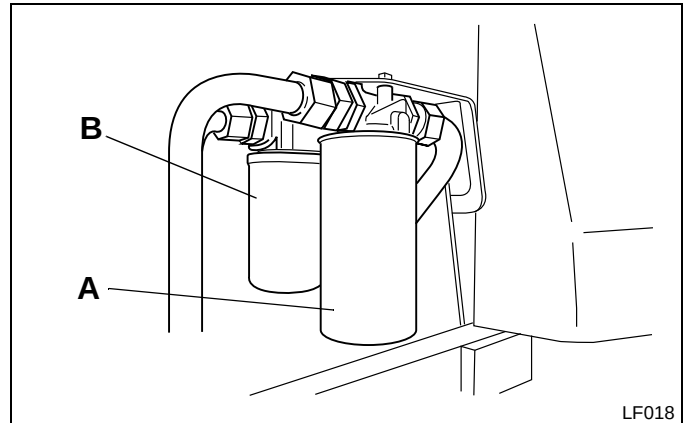


Figure 5B

5.14 ELECTRICAL SYSTEM

CAUTION

Always turn the ignition switch off, and remove the negative battery cable (Black), before inspecting or working on the electrical system.

General precautions that can be taken to reduce electrical problems are listed below.

1. Make certain all terminals and connections are clean and properly secured.
2. Check the interlock system, fuses, and circuit breakers regularly.
If the interlock does not function properly and the problem cannot be corrected, contact an authorized Jacobsen Dealer.
3. Keep the wire harness and all individual wires away from moving parts to prevent damage.
4. Make sure the seat switch harness is connected to the main wire harness.
5. Check the battery and battery charging circuit.
6. Do not wash or pressure spray around electrical connections and components.

The electrical system is monitored and controlled by the electronic controller **(C)** located behind the operator's area, and LDU on armrest. Circuits are protected by a circuit breaker, fuses, and relays mounted next to the controller.

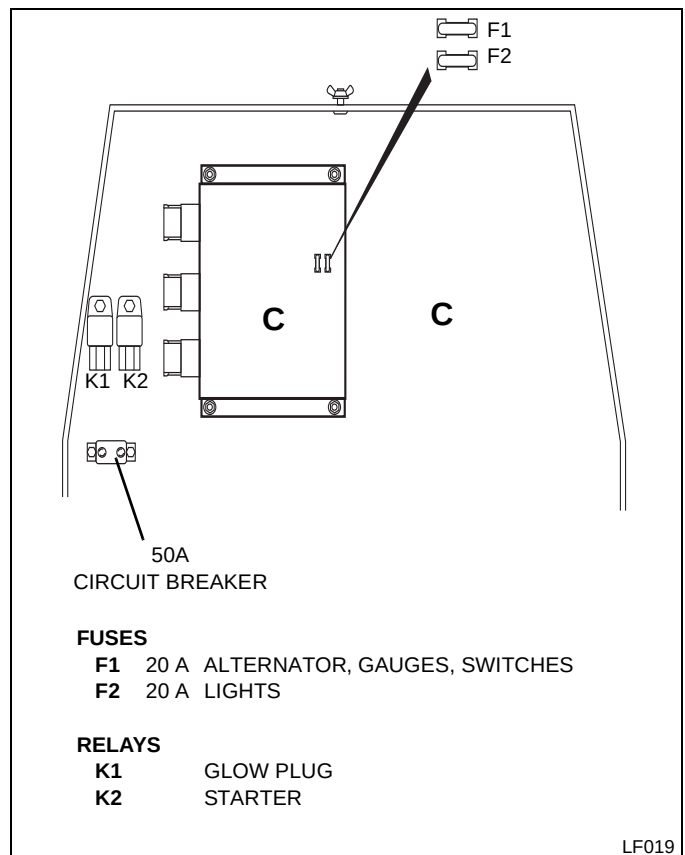


Figure 5C

5.15 RADIATOR



WARNING

To prevent serious bodily injury from hot coolant or steam blow-out, never attempt to remove the radiator cap while the engine is running. Stop the engine and wait until it is cool. Even then, use extreme care when removing the cap.



CAUTION

Do not pour cold water into a hot radiator. Do not operate engine without a proper coolant mixture. Install cap and tighten securely.

Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.

Drain and refill annually. Remove the radiator cap, open the engine block drain, and the radiator drain. Empty and clean the recovery bottle.

Mix clean water with ethylene glycol based anti-freeze for the coldest ambient temperature. Read and follow the instructions on the anti-freeze container and engine manual.

Keep radiator and hydraulic oil cooler air passages clean. Use compressed air (30 psi maximum) to clean the fins.

1. Use a blow gun to clean the radiator and oil cooler fins.

NOTICE

A sliding panel located under the frame can be loosened and pulled back to allow dirt and debris to fall through frame.

2. Check and tighten the fan belt. Replace clamps and hoses every two years.
3. If you have to add coolant more than once a month, or add more than one quart at a time, have a Jacobsen Dealer check the cooling system.

5.16 ROLL OVER PROTECTIVE STRUCTURE (ROPS)

A Roll Over Protective Structure (ROPS), designed for this mower, is available as an optional accessory. If your mower is equipped with this device, inspect it periodically and follow operating procedures described in the **Safety & Operation Manual**.



CAUTION

Do not loosen or remove bolts, do not weld, drill, modify, bend, or straighten a damaged structure.

1. The seat, the seat belt, mounting hardware, and any accessories within the ROPS, should be inspected regularly and all damaged parts replaced immediately.
2. Once the ROPS has been subjected to any form of impact it should be replaced.
3. Check and torque all hardware. All replacement components used for the ROPS must be as specified in the Parts Catalog.

5.17 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.
2. Check pressure every 50 hours or once a month. Use an accurate, low pressure tire gauge.
3. Keep tires inflated to 10-12 psi (0.69 -0.87 BAR).



CAUTION

Unless you have the proper training, tools, and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an explosion which may result in serious injury.

5 MAINTENANCE

5.18 WHEEL MOUNTING PROCEDURE

 WARNING

Make sure the mower is parked on a solid and level surface. Never work on a mower that is supported only by the jack. Always use jack stands.

If only the front or rear of the mower is raised, place chocks in front of and behind the wheels that are not raised.

1. Remove dirt, grease, and oil from stud thread. Do not lubricate threads.
2. Position wheel on hub and inspect to insure full contact between mounting surface of wheel and hub or brake drum.
3. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
4. Check and torque daily until torque is maintained, 85-95 ft.lbs. (115-128 Nm).

5.19 CARE AND CLEANING

Clean the mower and implements after each use. Keep the equipment clean. Whenever possible, use compressed air to clean mower.

NOTICE

Do not wash any portion of the equipment while it is hot. Do not use high pressure spray or steam. Use cold water and automotive cleaners.

1. Use compressed air to clean engine and radiator fins (30 psi (2.1 BAR) maximum).
2. Use only fresh water for cleaning your equipment.

NOTICE

Use of salt water or affluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.

3. Do not spray water directly at the instrument panel, ignition switch, controller, or any other electrical components, or at bearing housings and seals.

4. Clean all plastic or rubber components with a mild soap solution and warm water, or use commercially available vinyl/rubber cleaners.

Repair damaged metal surfaces and use Jacobsen touch-up paint. Wax the equipment for maximum paint protection.

 CAUTION

Clean grass and debris from cutting units, drives, muffler, and engine to prevent fires.

 WARNING

NEVER use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries.

5.20 REEL BACKLAPPING



WARNING

To prevent severe injury, keep hands, feet, and clothing away from rotating reels.

Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.

Check the reel and bedknife to determine if backlapping or grinding will restore the cutting edge.

If wear or damage is beyond the point where the cutting edges can be corrected by the lapping process, they must be reground.

To backlap:

1. Lower the reels to the ground, disengage all drives, engage parking brake, and stop engine.
2. Loosen locknut **(D)** at valve stem.
3. Start the engine and set throttle to low idle speed.
4. Open hood and place back-lap switch **(B)** to ON. **Reels will begin rotating immediately.**
5. Both the front and rear reel valves contain an adjustable valve **(C)** to control the speed of the reels. The front valve controls the front three reels. The back valve controls the two rear reels. Turn valve counter-clockwise to reduce reel speed. Repeat for both valves.
6. After the desired speed is set, turn backlap switch **(B)** to OFF and stop engine. Tighten nut **(D)** to lock adjustment in place. Start engine and set backlap switch to ON to begin backlapping.
7. Apply lapping compound, with a long handled brush, along the entire length of the reel.
8. When the blades have been evenly honed, carefully, and thoroughly wash off the remaining mixture.
9. Repeat the entire process on the other reels.
10. After backlapping set backlap switch **(B)** to OFF.

Important: The speed control valves limit reverse speed only. Once the desired backlapping speed has been set the valves can remain in this position for normal mowing. If full reverse speed is needed, for instance during operation of vertical mowers, the valve can be fully closed (turn clockwise).

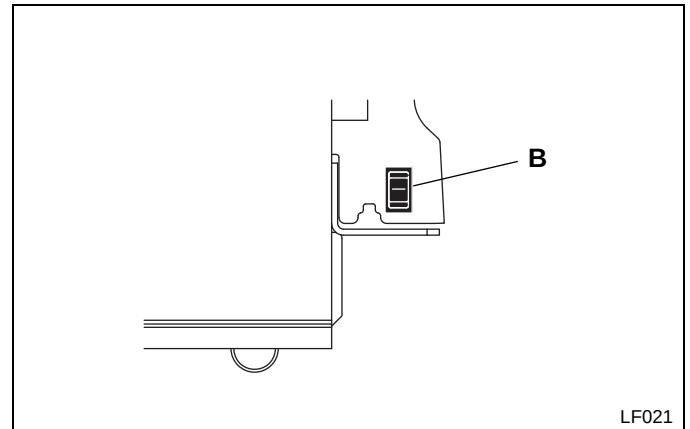


Figure 5D

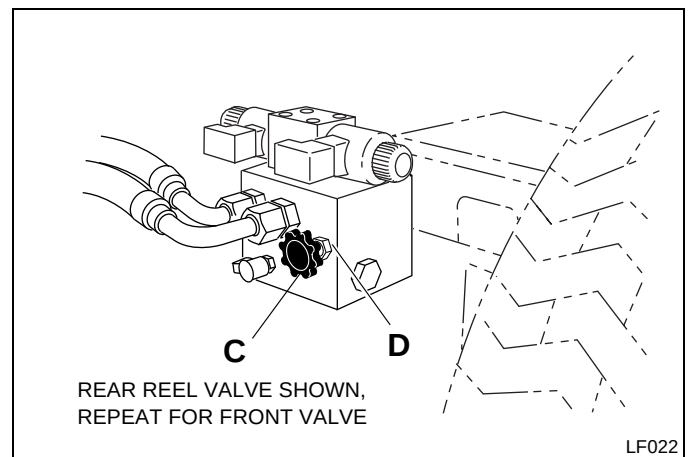


Figure 5E

5 MAINTENANCE

5.21 STORAGE

General

1. Wash the mower thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the mower, tighten all hardware, and replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the mower so the load is off the tires. If mower is not on jack stands, check tires at regular intervals, and reinflate as necessary.
5. Keep the machine and all its accessories clean, dry, and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

Battery

1. Remove, clean, and store battery in upright position in a cool, dry place.
2. Check and recharge battery every 60 to 90 days while in storage.
3. Store batteries in a cool, dry place. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (-7°C) to prevent electrolyte from freezing.

Engine

1. While the engine is warm, remove drain plug, drain the oil from the crankcase, and change the oil filter. Install drain plug and refill with fresh oil. Torque drain plug to 22 ft. lb. (30 Nm).
2. Clean exterior of engine. Paint exposed metal or apply a light coat of rust preventative oil.
3. Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.

Cutting Units

1. Wash the cutting units thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.
3. Backlap the reels then back the reel away from the bedknife. Apply a light coat of rust preventative oil to the sharpened edges of the reel and bedknife.



CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

After Storage

1. Check and reinstall battery.
2. Check or service fuel filter and air cleaner.
3. Check the radiator coolant level.
4. Check oil level in the engine crankcase and hydraulic system.
5. Fill the fuel tank with fresh fuel. Bleed the fuel system.
6. Make certain that the tires are properly inflated.
7. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
8. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.



WARNING

Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.

6.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information regarding the hydraulic and electrical systems contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	1. Parking brake disengaged, traction pedal not in Neutral or mow switch on. 2. Glow plug has not timed out. 3. Battery low on charge or defective. 4. Fuel tank empty or dirty. 5. Fuse blown. 6. Relay defective. 7. Neutral switch on traction pedal out of adjustment or defective.	1. Check interlock system and start-up procedure. 2. Reset ignition switch and allow glow plug to time out before cranking engine. 3. Inspect condition of battery and battery connections. 4. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 5. Replace fuse. 6. Test and replace relay. 7. Adjust or replace switch.
Engine hard to start or runs poorly.	1. Fuel level low, fuel or fuel filter dirty. 2. Air cleaner dirty. 3. Injectors, fuel pump. 4. Engine problem.	1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. 2. Inspect and replace air filter. 3. Consult Engine Manual. 4. Consult Engine Manual.
Engine stops.	1. Fuel tank empty. 2. Interlocks not set before leaving operator's seat.	1. Fill with fresh fuel and bleed fuel lines. 2. Engage parking brake and set mow switch to OFF.
Engine overheating.	1. Coolant level low. 2. Air intake restricted. 3. Water pump belt broken or loose.	1. Inspect and add coolant. 2. Clean air intake at radiator. 3. Tighten or replace belt.
Battery not holding charge. Battery light on.	1. Loose or corroded battery terminals. 2. Low electrolyte. 3. Alternator belt loose or broken. 4. Charging system defective.	1. Inspect and clean terminals. 2. Refill to correct level. 3. Tighten or replace belt 4. See engine manual.
Reels cut unevenly.	1. Bedknife-to-reel not adjusted correctly. 2. Engine speed too low. 3. Mow speed not adjusted for turf conditions. 4. Mow switch set in reverse. 5. Not enough rear roller pressure. 6. Front roller not following undulations adequately.	1. Inspect bedknife-to-reel adjustment. 2. Check engine speed. Run engine at full throttle. 3. Adjust mow speed for best cut. 4. Set for forward rotation. 5. Move down pressure spring one hole towards spring. 6. Move down pressure spring one hole away from spring.

7 MAINTENANCE & LUBRICATION CHARTS

7.1 GENERAL



WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine, and remove key from ignition switch to prevent injuries.

1. Always clean grease fittings before and after lubrication.

2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air.
3. For smooth operation of pivot points and other friction points, apply several drops of SAE 30 oil every 50 hours or as required.
4. Remove wheels and repack bearings once a year.

7.2 MAINTENANCE CHART

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Every 400 Hours	Every 500 Hours	Every 1000 Hours	Yearly	See Section	Lubricant Type
Air Cleaner			AR					R	5.4	
Battery Charge			I						5.9	
Belt	I-A*		I-A			R			4.7	
Brake		I-A*		A					4.8	
Cooling System/Coolant	I-C-A							R	5.15	
Engine Oil	I	R*	R						5.2	III
Engine Oil Filter		R*	R						5.3	
Fuel Lines and Clamps		I								
Fuel Filter					R				5.6	
Grease Fittings - F1		L							7.3	II
Grease Fittings - F2			L						7.3	II
Grease Fittings - F3				L					7.3	II
Hydraulic Hoses and Tubes	I***			I					5.11	
Hydraulic Oil		I-A				R**			5.12	IV
Hydraulic Oil Filters		R*				R-AR			5.13	
Muffler and Exhaust				I					5.10	
Radiator Screens	I-C/AR								5.15	
Tires		I-A							5.17	
Steering System		I*		I-A						
Wheel Bearings								L		I
Wiring		I*		I					5.14	

A - Add or Adjust C - Clean I - Inspect L - Lubricate R - Replace AR - As Required

* Indicates initial service for new machines.

** Or Yearly whichever comes first.

*** Inspect visible hoses and tubes for leaks or oil marks.

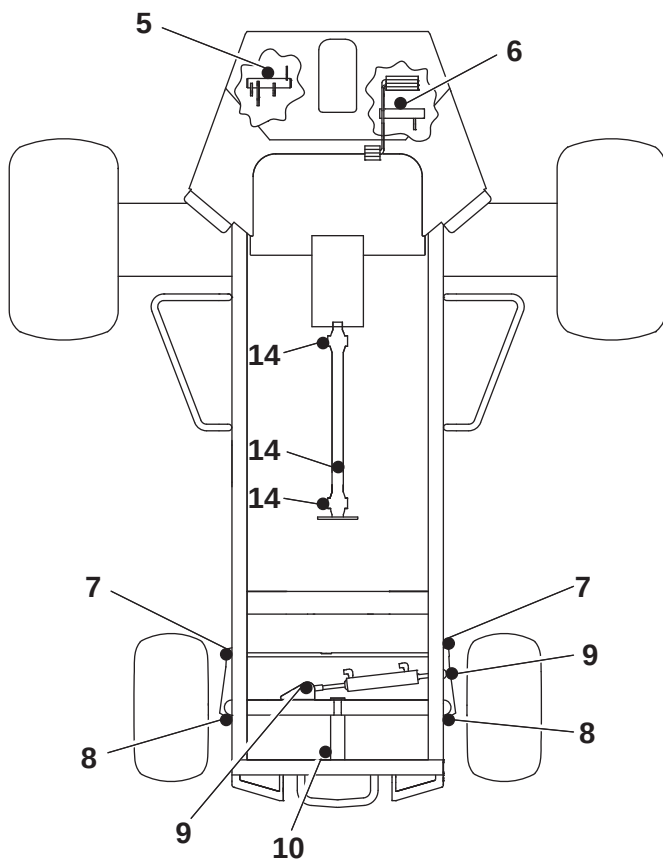
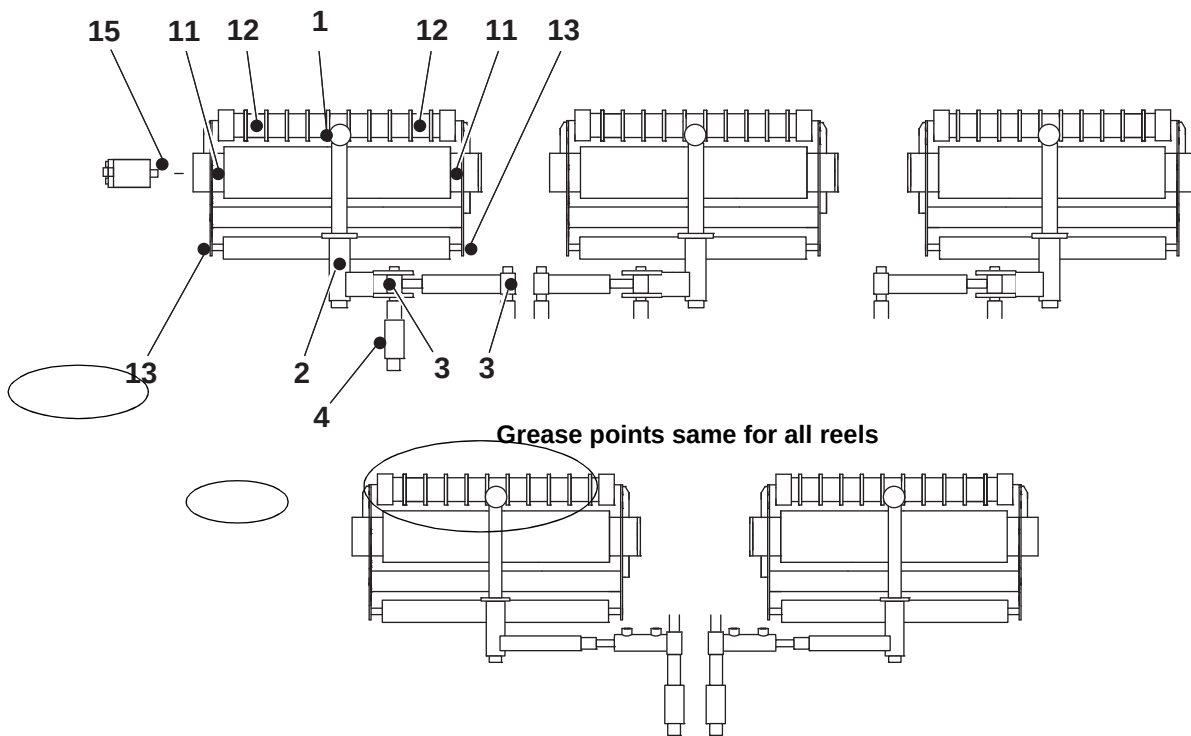
I Pack bearings with NLGI Grade 2 (Service Class GB)

II Manual grease gun with NLGI Grade 2 (Service Class LB).

III Engine Oil - See Section 5.3

IV Jacobsen Hydraulic Oil - SAE 10W30 or Greens Care 68

7.3 LUBRICATION CHART



Grease Fittings

F1 - 50 Hours (Every Week)

- 1 Swivel Housing
- 2 Lift Arm
- 3 Lift Cylinders
- 4 Lift Arm Pivot
- 5 Brake Pedal Pivot
- 6 Traction Pedal Pivot
- 7 Ball Joint
- 8 Steering Pivot
- 9 Steering Cylinder
- 10 Axle Pivot

F2 - 100 Hours

- 11 Reel Bearing Cavity
- 12 Front Roller
- 13 Rear Roller
- 14 U-joint Driveshaft

F3 - 250 Hours

- 15 Motor Spline

8 PARTS CATALOG

8.1 HOW TO USE THE PARTS CATALOG

Abbreviations

- N/S** -Not serviced separately, can only be obtained by ordering main component or kit.
- AR** - Variable quantity or measurement is required to obtain correct adjustment.

Symbols such as □ , next to the item number, indicate that a note exists which contain additional information important in ordering that part.

Indented Items

Indented items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separately or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes	
□	1	123456	1	Mount, Valve	<i>Indicates a piece part</i>
	2	789012	1	Valve, Lift	<i>Includes Items 2 and 3</i>
	3	345678	1	• Handle	<i>Serviced part included with Item 2</i>
	4	N/S	1	• Seal Kit	<i>Non serviced part included with Item 2</i>
	5	901234	1	Screw, 1/4-20 x 2" Hex Head	

8.2 HOW TO ORDER PARTS

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name, and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity desired, the part number, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Jacobsen Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

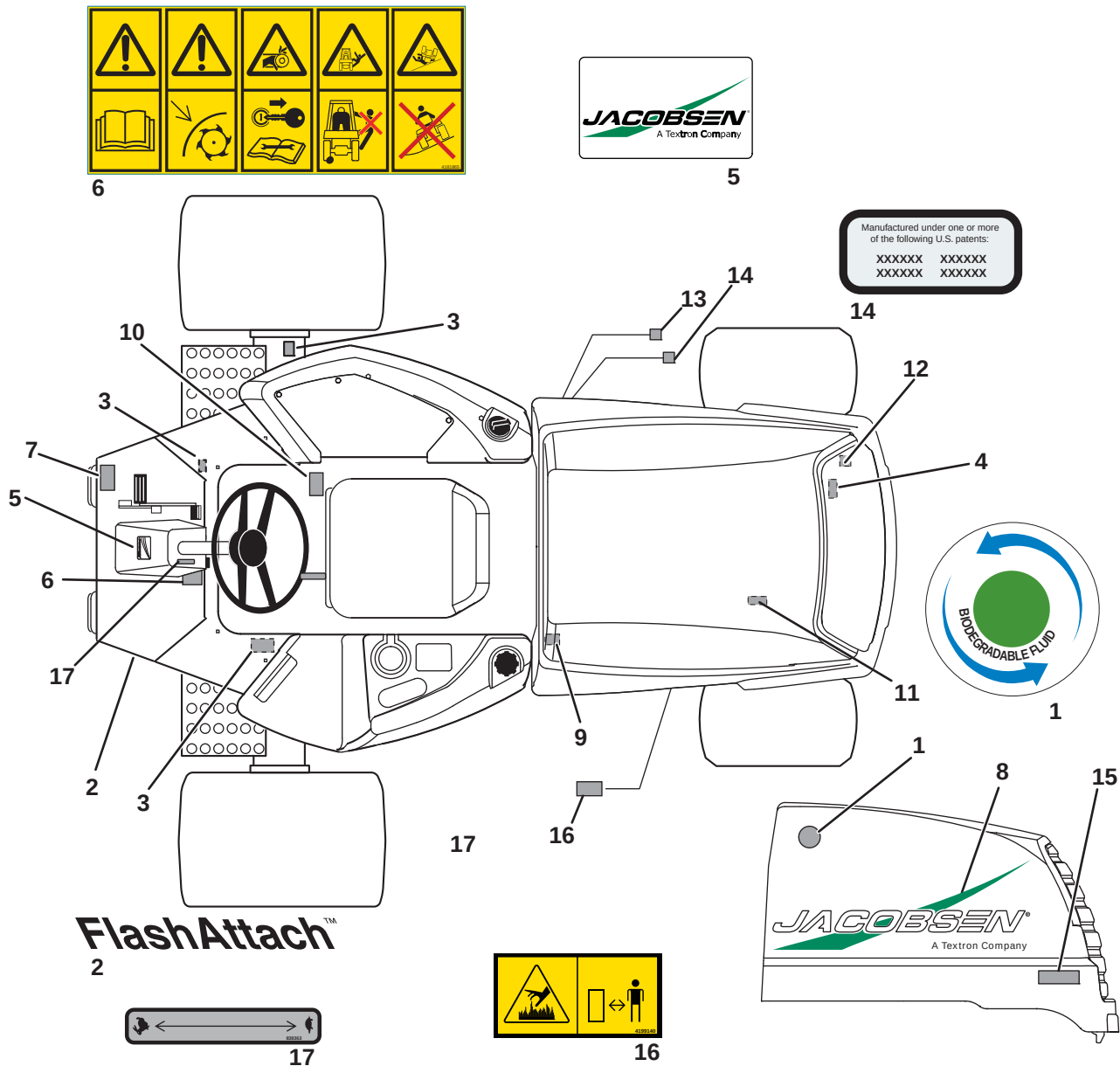
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LF 550

Serial No. All

1.1 Decals



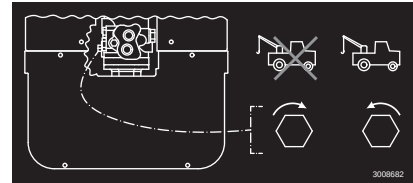
LF 550
LF 550 4WD
LF 550 4WD TURBO
LF 570
LF 570 4WD
LF 570 4WD TURBO
15



11



9



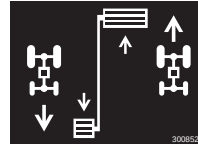
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3



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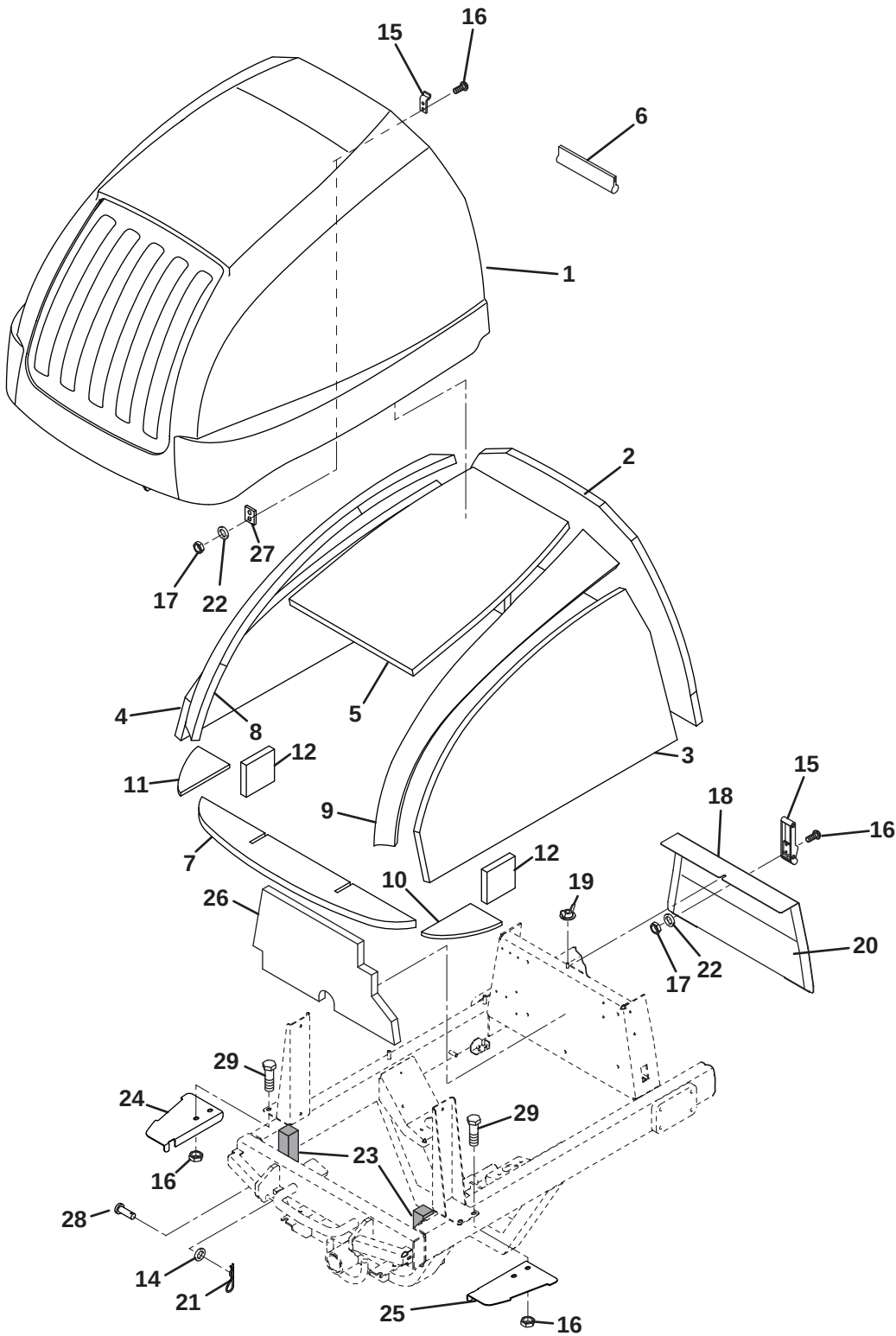
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12

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4111408	2	Decal, Bio Fluid	
2	3008930	1	Decal, Flash Attach	
3	3008683	2	Decal, Backlap	Located on Front Axle
4	4181862	1	Decal, Radiator Cap Warning	Located on top of Radiator
5	4182386	1	Decal, Jacobsen Emblem	
6	4181865	1	Decal, Instruction	
7	3008521	1	Decal, Traction Pedal	
8	4187681	2	Decal, Jacobsen	
9	4181864		Decal, Battery Warning	Located on Controller Housing
10	3008682	1	Decal, Tow Valve	
11	4181861	1	Decal, Start Fluids	
12	4131663	1	Decal, Backlap	Located on Radiator Shroud
13	4117468	1	Decal, Noise 105 dB	Located on Frame
14	4194325	1	Decal, Patent	Located on Frame, LF 550
14	4194326	1	Decal, Patent	Located on Frame, LF 570
15	4239402	2	Decal, LF 550	67978 Only
15	4239403	2	Decal, LF 550 4WD	67979 Only
15	4239404	2	Decal, LF 550 4WD Turbo	67980 Only
15	4239405	2	Decal, LF 570	67981 Only
15	4239406	2	Decal, LF 570 4WD	67982 Only
15	4239407	2	Decal, LF 570 4WD Turbo	67983 Only
16	4199140	1	Decal, Heat Warning	
17	838363	1	Decal, Throttle	

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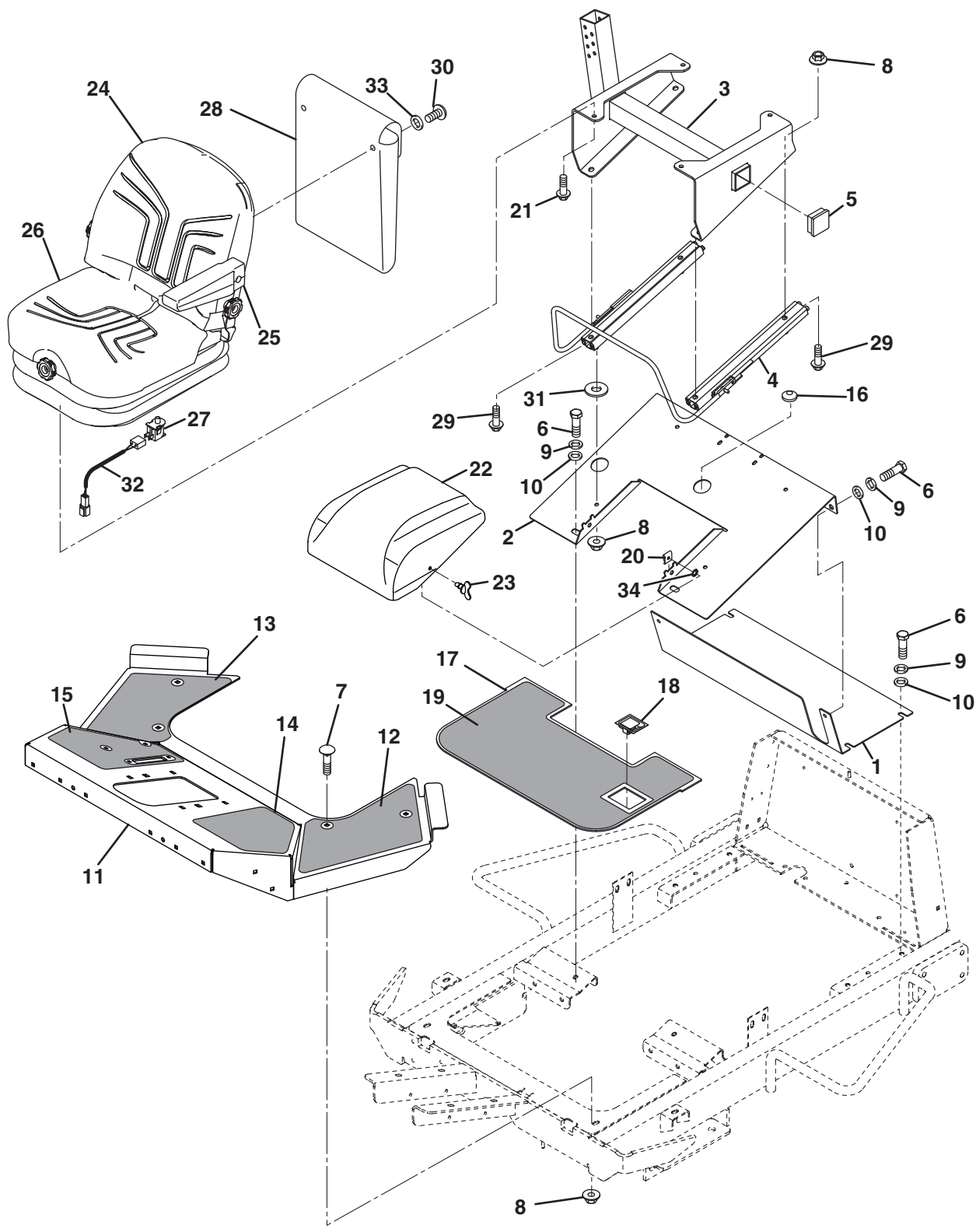


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4210824	1	Hood Assembly	Includes Items 8 on Illustration 1.1 5 Foot Length, Cut to Size
2	4218040	1	• Foam, Front	
3	4218042	1	• Foam, Right Side	
4	4218043	1	• Foam, Left Side	
5	4218041	1	• Foam, Top	
6	4130360	AR	• Seal, Trim	
7	4221520	1	• Foam, Rear	
8	4218061	1	• Foam, Top Left	
9	4218060	1	• Foam, Top Right	
10	4233840	1	• Foam, Left Side Skirt	
11	4233841	1	• Foam, Right Side Skirt	
12	4233842	2	• Foam, Skirt	
13	800907	4	Nut, 5/16-18 Hex Flange	
14	453017	2	Flat Washer, 1/2	
15	4212423	1	Latch, Flexible Cover Draw	
16	800299	2	Screw, #10-24 x 1" Pan Head	
17	444310	4	Nut, #10-24 Hex	
18	3006873	1	Cover, Front Mount	
19	3008195	1	Wing Nut, 1/4-20 Steel	
20	3009210	1	Foam (Cut To Length)	
21	822529	2	Hair Pin, 7/16 x 2 x 1/8"	
22	446118	4	Lockwasher, #10 Heavy	
23	4138359	2	Foam	
24	4221420	1	Seal, Left Side Air	
25	4221421	1	Seal, Right Side Air	
26	3007548	1	Foam, Control Module	
27	4212820	1	Backer, Flex Latch Keeper	
28	548458	2	Clevis Pin, 1/2 x 1-1/4"	
29	800794	4	Screw, 5/16-18 x 3/4" Hex Head	

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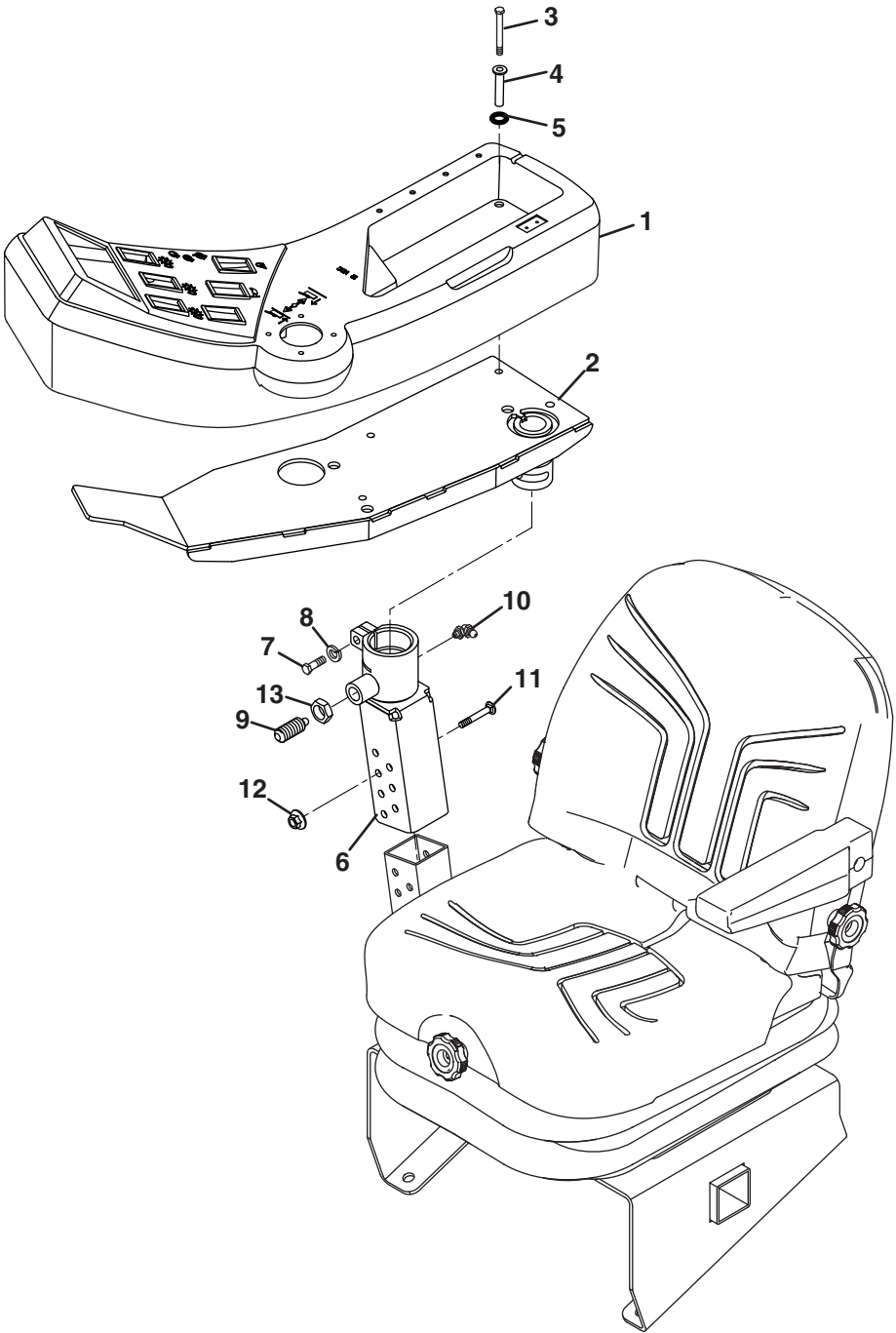
3.1 Seat Pan
Harita Seat

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1004279	1	Floor Pan	Includes Items 6 - 8, Illustration 1.1
2	4218500	1	Seat Pan	
3	4217621	1	Support, Seat	
4	4210561	1	Adjuster, Double Latching	
5	4222229	1	Plug, 2 x 2" Tube	
6	400258	9	Screw, 3/8-16 x 3/4" Hex Head	
7	441602	4	Carriage Bolt, 5/16-18 x 3/4"	
8	445795	12	Nut, 5/16-18 Spiralock Flange	
9	446142	9	Lockwasher, 3/8 Heavy	
10	452008	4	Flat Washer, 3/8	
11	4237303	1	Platform	
12	3007609	1	• Pad, Left Floorboard	
13	3007610	1	• Pad, Right Floorboard	
14	4237183	1	• Pad, Left Foot	
15	4237182	1	• Pad, Right Foot	
16	4241042	1	Grommet	
17	4209941	1	Floorboard	
18	4123723	1	Latch, Panel	
19	4209943	1	Pad, Center Floorboard	
20	3005604	2	Receptacle	
21	409812	4	Screw, 5/16-18 x 3/4" Thread Cutting	
22	4209944	1	Cover, Hydro	
23	4237709	2	Stud, 1/4 Turn	
24	4203441	1	Suspension Seat Assembly	
	4210685	1	• Arm Rest Kit	R.H. Arm Rest in kit is not used.
25	4210682	1	• • Arm Rest, L.H.	
26	4211101	1	• Seat Bottom	REFERENCE SW-10, See 47.1
27	4210500	1	• Switch, Seat	
28	3003928	1	Pouch, Literature	
29	403751	2	Screw, 5/16-18 X 3/4" Serr Washer	
30	800943	2	TScrew, #10-16 x 3/4" Plastic	
31	831053	4	Spacer, Seat	
32	5003769	1	Seat Switch Harness	
33	452004	2	Flat Washer, 1/4	
34	3005603	2	Retainer, 1/4 Turn Stud	

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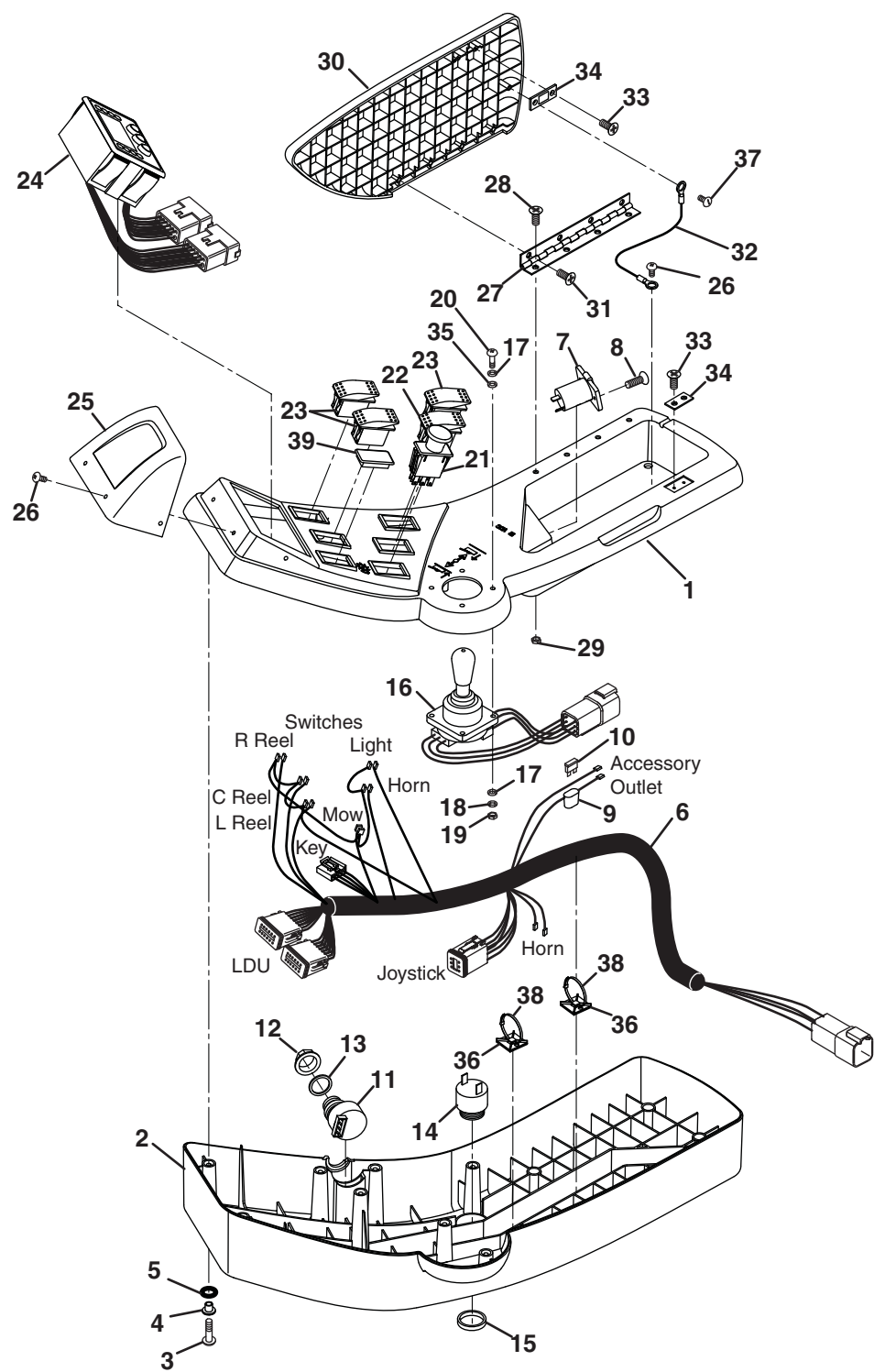
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Armrest Assembly	
2	4188380	1	Support, Upper Armrest	
3	4189843	4	Screw, M6-1 x 65 mm Hex Head	
4	4188484	4	Flange, M6 Body Fastener	
5	473211	4	Spacer, Black Neoprene	
6	4209240	1	Pivot, Lower Armrest Support	
7	450193	1	Screw, M8-1.25 x 20 mm Hex Head	
8	450411	1	Lockwasher, M8	
9	4188569	1	Plunger, Round Nose	
10	471216	1	Grease Fitting, 1/4-28 Straight	
11	441687	3	Carriage Bolt, 5/16-18 x 3"	
12	445795	3	Nut, 5/16-18 Spiralock Flange	
13	450334	1	Nut, M16-2 Hex	

> Change from previous revision

LF 550

5.1 Armrest

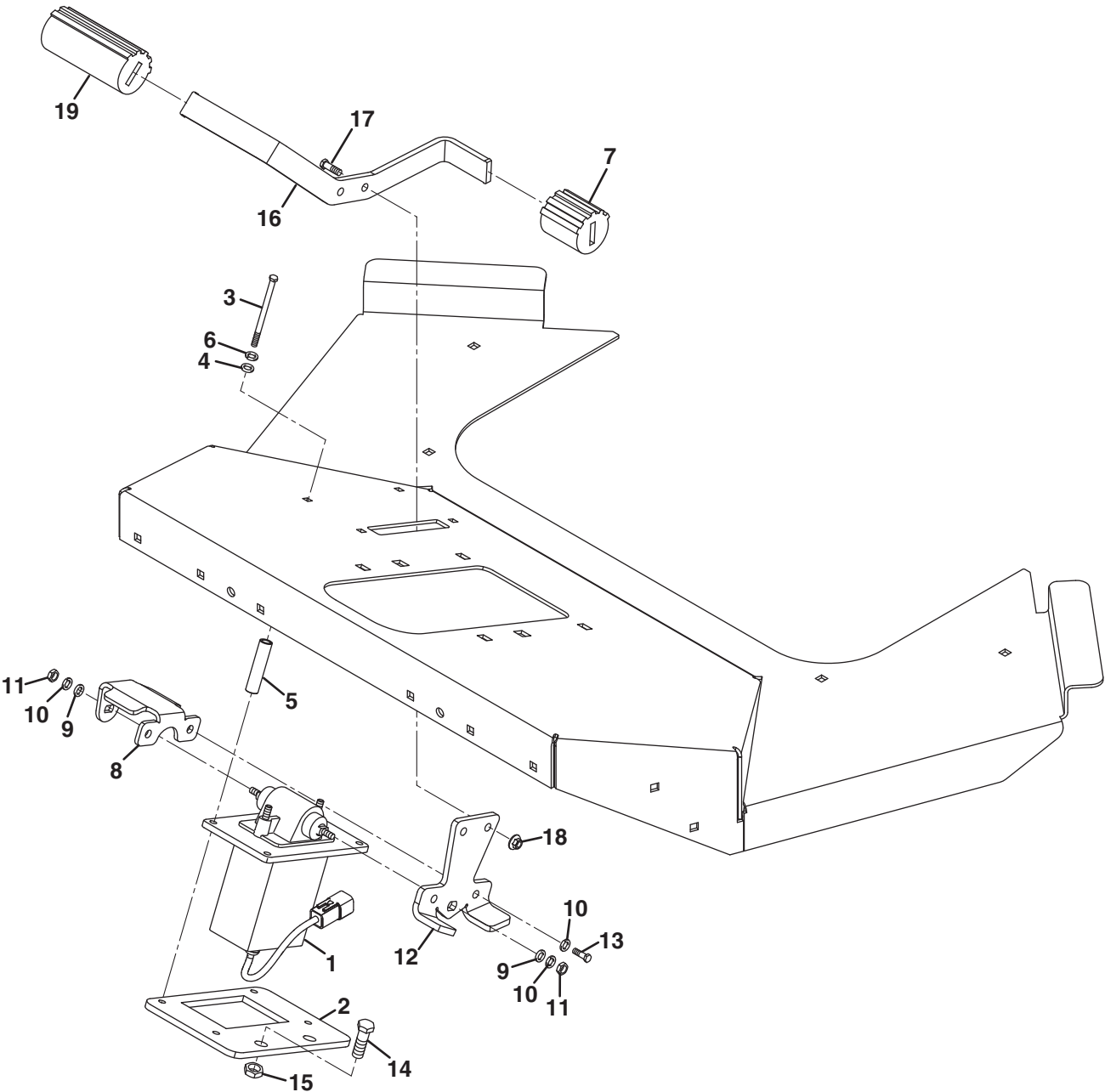
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4233480	1	Armrest, Upper	
2	4168560	1	Armrest, Lower	
3	4189540	8	Screw, M4-0.7 x 20 mm Torx	
4	4188480	8	Flange, M4 x 4 mm Body	
5	4188482	8	Spacer, Black Neoprene	
6	4219300	1	Harness, LDU	
7	843942	1	• Socket, 12V Accessory Plug	
8	N/S	2	• • Screw	
9	4131299	1	• Fuse Holder	
10	836892	1	• Fuse, 10 Amp	
11	4128888	1	Key Switch	
	4131618	1	• Key	
12	N/S	1	• Mounting Nut	
13	4192480	1	Washer, 7/8"	
14	4150539	1	Horn	
15	N/S	1	• Ring Nut	
16	1004290	1	Joystick, 1 Axis	
17	4189841	8	Flat Washer, 4 mm	
18	450408	4	Lockwasher, 4 mm	
19	450321	4	Nut, M4-0.7 Hex	
20	4189840	4	Screw, M4-0.7 x 20 mm Pan Head	
21	4174684	1	Switch, Mow	
22	4130133	1	Rocker Switch, Momentary	
23	4130132	3	Rocker Switch	
24	4216682	1	LDU Controller	
25	4188840	1	Visor, Armrest	
26	409952	4	Screw, M4 x 13 mm Thread Cutting	
27	4168564	1	Hinge, Armrest	
28	4201880	4	Screw, #6-32 x 1/2" Flat Head	
29	444304	4	Nut, #6-32 Hex	
30	4168562	1	Door, Armrest	
31	4201867	4	Screw, #6-32 x 3/8" Thread Cutting	
32	4156925	1	Lanyard	
33	4201980	4	Screw, #4 x 1/2" Self Threading	
34	4168563	1	Set, Magnetic Catch	
35	4189842	4	Spacer	
36	4200540	2	Adhesive Mount, Cable Tie	
37	402006	1	Screw, #6-32 x 1/2" Slotted Head	
38	473142	2	Cable Tie	
39	4225220	1	Panel, Plug	

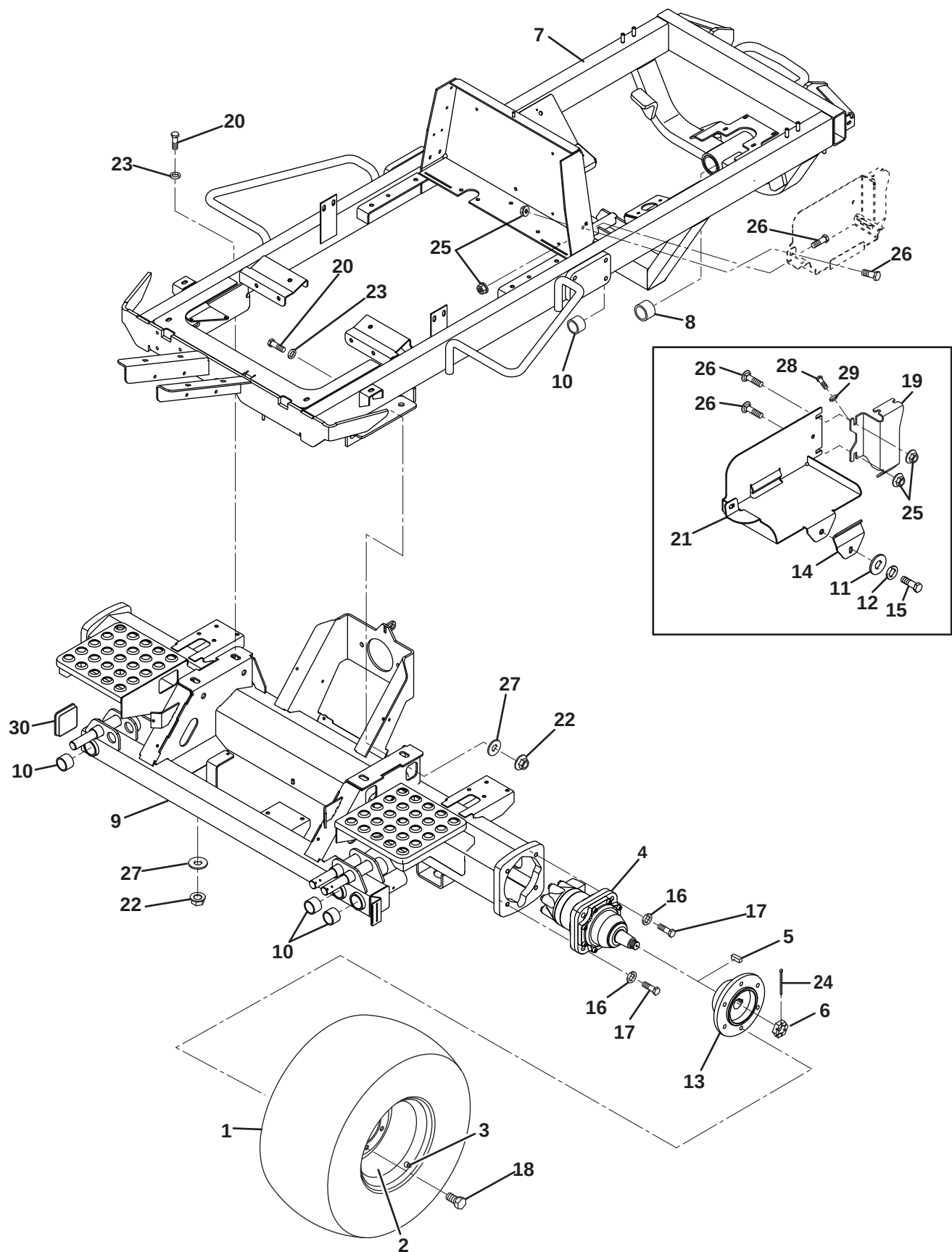
> Change from previous revision

6.1 Traction Pedal



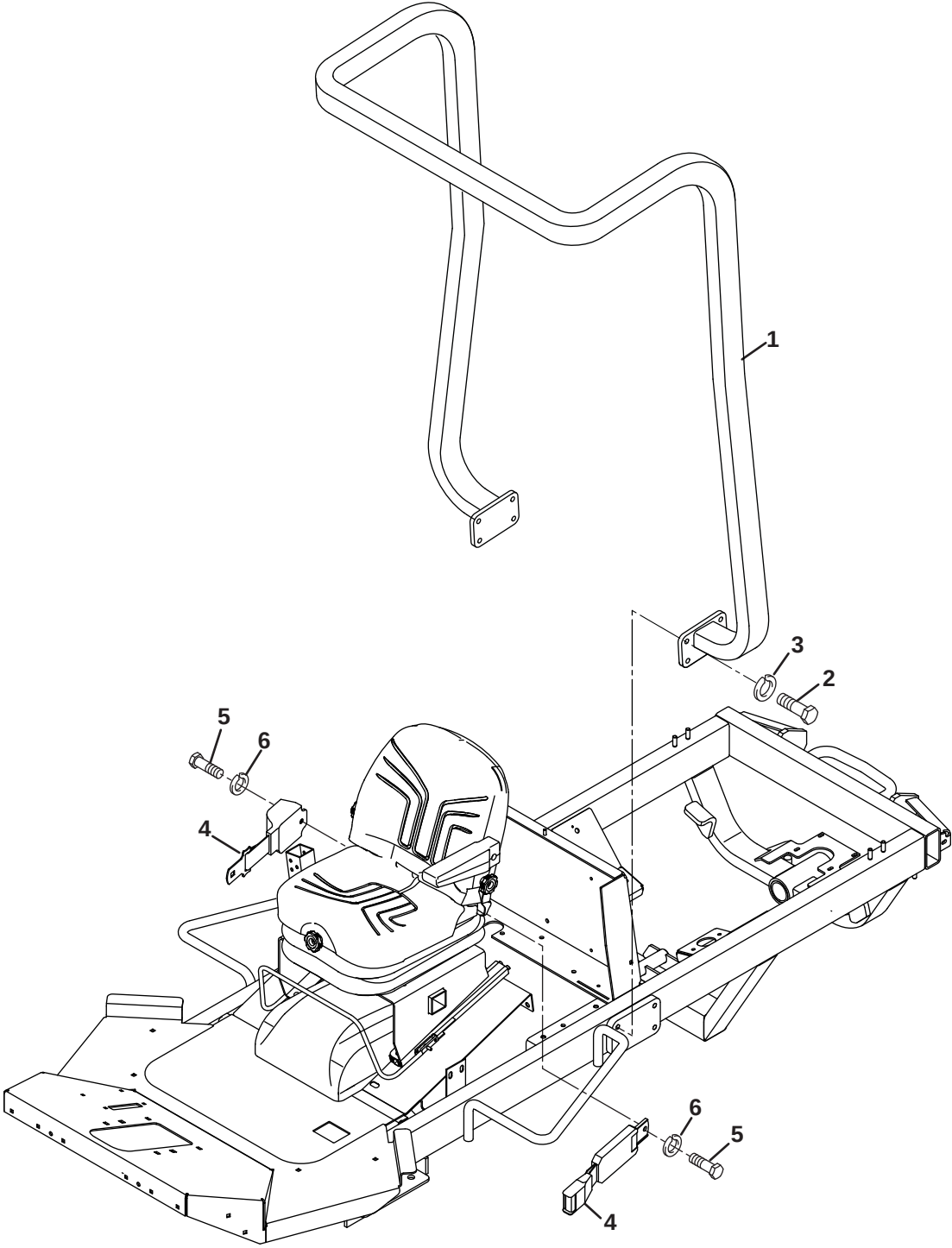
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4218260	1	Pedal, Traction	REFERENCE U3, See 47.1
2	4235560	1	Plate, Pedal Support	
3	400128	4	Screw, 1/4-20 x 3-1/2" Hex Head	
4	453023	4	Flat Washer, 1/4	
5	4233220	4	Spacer	
6	446130	4	Lockwasher, 1/4 Heavy	
7	3003474	1	Grip, Pedal	
8	4230160	1	Mount, Arm	
9	450399	2	Flat Washer, M6	
10	450410	4	Lockwasher, M6	
11	450323	2	Nut, M6-1 Hex	
12	4225480	1	Plate, Pedal Pivot	
13	450171	2	Screw, M6-1 x 20 mm Hex Head	
14	400186	2	Screw, 5/16-18 x 7/8" Hex Head	
15	445795	2	Nut, 5/16-18 Spiralock Flange	
16	4209121	1	Arm, Traction Pedal	
17	400410	2	Screw, 1/2-13 x 1-3/4" Hex Head	
18	443118	2	Nut, 1/2-13 Hex	
19	3003475	1	Grip, Pedal	
				Pedal Stops

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4236060	2	Tire, 26.5 x 14-12 4 Ply	See 42.1
2	4210442	2	Rim, 12 x 10.5	
3	360111	2	Valve, Inflation	
4	4209440	2	Wheel Motor	
	4222844	1	• Seal Kit	
	4222842	1	• Shaft, Module	
	4222843	1	• Brake Module	
5	4222840	1	• Key, 3/8 x 3/8 x 1"	
6	4222841	1	• Nut, 1-20 Slotted Hex	
7	4237302	1	Frame	
8	366871	2	• Bushing	Includes Four (4) of Item 10
9	4208944	1	Front Axle	Includes Six (6) of Item 10
10	366870	10	• Bushing	
11	452006	1	Flat Washer, 5/16	Grade 8 Bolt
12	446134	1	Lockwasher, 5/16	
13	4209540	2	Hub, Wheel	
14	4192520	1	Clamp, Battery	
15	400188	1	Screw, 5/16-18 x 1" Hex Head	
16	446154	8	Lockwasher, 1/2 Heavy	
17	400414	8	Screw, 1/2-13 x 2-1/4" Hex Head	
18	353914	12	Wheel Bolt	
19	4103061	1	Bracket, Fuel Filter	
20	4113047	6	Screw, 5/8-18 x 1-1/2" Hex Head	
21	4192840	1	Battery Tray	
22	443128	6	Nut, Hex 5/8-18 UNF	
23	452016	6	Flat Washer, 5/8 1.75 x .688 x .1	
24	460032	2	Cotter Pin, 1/8 x 1-1/2"	
25	445795	4	Nut, 5/16-18 Spiralock Flange	
26	441602	3	Bolt, 5/16-18 x 3/4" Carriage	
27	4140094	6	Washer .688 x 1.313 x .150 Hard	
28	400258	1	Screw, 3/8-16 x 3/4" Hex Head	
29	446142	1	Lockwasher, 3/8 Heavy	
30	4244422	1	Plug, 3" x 3" Tube	

> Change from previous revision



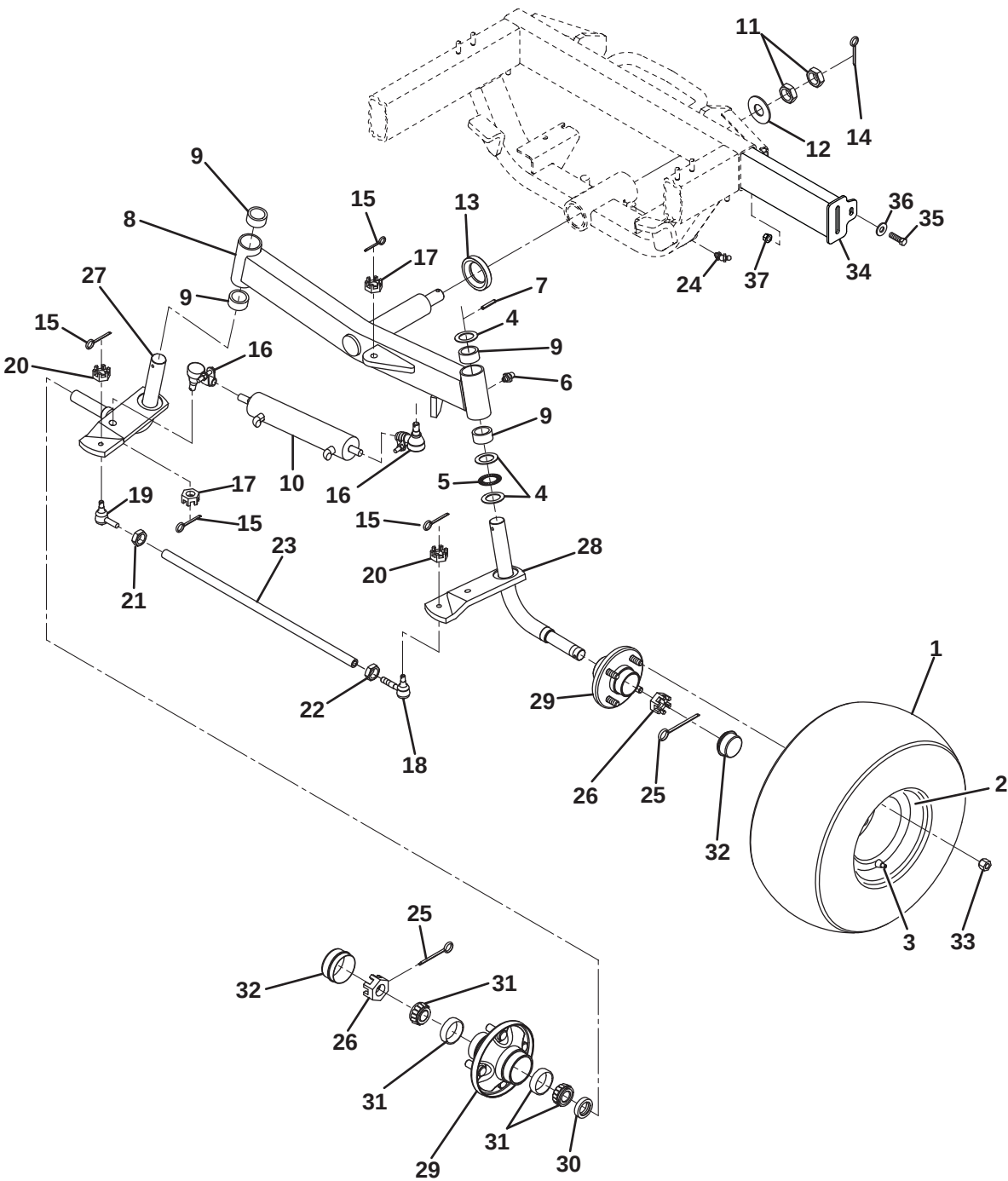
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4218320	1	ROPS	
2	5000465	8	Screw, 1/2-13 x 1-1/4" Hex GR 8	
3	446154	8	Lockwasher, 1/2 Heavy	
4	4193182	1	Seat Belt Kit	
5	400370	2	Screw, 7/16-20 x 1" Hex Head	
6	446148	2	Lockwasher, 7/16 Heavy	

> Change from previous revision

LF 550

9.1 2WD Steering
2WD Units Only

Serial No. 67978 - All
Serial No. 67981 - All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4219320	2	Tire, 18 x 9.5-8 Treaded 4-Ply	S/N 1651 ~ 2499 for all models
1	4236061	2	Tire, 20 x 10-8 Treaded 4-Ply	S/N 2500 and Up for all models
2	4236021	2	Rim	
3	360111	2	Inflation Valve	
4	361648	6	Washer, Thrust	
5	361647	2	Bearing, Thrust	
6	471214	2	Fitting, Grease	
7	461393	2	Pin, Spring 1/4 x 2"	
8	117139	1	Steering Axle	
9	3010489	4	• Bushing	
10	4137137	1	Cylinder, Steering	
	4137139	1	• Seal Kit	
11	443840	2	Nut, 1-12 Hex Jam	
12	452022	1	Flat Washer, 1	
13	366789	1	Spacer, Axle	
14	460064	1	Cotter Pin, 1/4 x 1-1/2"	
15	460026	4	Cotter Pin, 1/8 x 3/4"	
16	153234	2	Ball Joint	
	400194	2	• Screw, 5/16-18 x 1-3/4"	
	444718	2	• Locknut, 5/16-18 Hex	
	471214	2	• Grease Fitting	
17	445666	2	• Nut, 1/2-20 Slotted Hex	
18	1002032	1	Ball Joint, Right Hand Thread	
19	1002031	1	Ball Joint, Left Hand Thread	
	471214	2	• Grease Fitting	
20	445647	2	• Nut, 3/8-24 Slotted Hex	
21	443120	1	Nut, 1/2-20 Hex Right Hand Thread	
22	445664	1	Nut, 1/2-20 Hex Left Hand Thread	
23	3009378	1	Tie Rod	
24	471227	1	45° Grease Fitting	
25	460050	2	Cotter Pin, 3/16 x 1-1/4"	
26	445710	2	Nut, 1-14 Slotted Hex	
27	2812269	1	Spindle, Right	
28	2812270	1	Spindle, Left	
29	5002910	2	Wheel Hub	
30	554329	2	• Seal, Grease	
31	500596	2	• Bearing, Cup and Cone	
32	545692	2	• Dust Cap	
33	354807	8	• Wheel Nut	
34	4243304	1	Weight, Rear Axle	
35	400188	1	Screw, 5/16-18 x 1" Hex Head	
36	452006	1	Flat Washer, 5/16	
37	445795	1	Nut, 5/16-18 Spiralock Flange	

> Change from previous revision

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4219320	2	Tire, 18 x 9.5-8 Treaded 4-Ply	S/N 1651 ~ 2499 for all models S/N 2500 and Up for all models
1	4236061	2	Tire, 20 x 10-8 Treaded 4-Ply	
2	4236021	2	Rim	
3	360111	2	Inflation Valve	
4	361648	6	Washer, Thrust	
5	361647	2	Bearing, Thrust	
6	471214	2	Fitting, Grease	
7	461393	2	Pin, Spring 1/4 x 2"	
8	4210701	1	Steering Axle	
9	3010489	4	• Bushing	
10	4137137	1	Cylinder, Steering	
	4137139	1	• Seal Kit	
11	443840	2	Nut, 1-12 Hex Jam	
12	452022	1	Flat Washer, 1	
13	366789	1	Spacer, Axle	
14	460064	1	Cotter Pin, 1/4 x 1-1/2"	
15	460026	2	Cotter Pin, 1/8 x 3/4"	
16	4141925	2	Ball Joint	
	400194	2	• Screw, 5/16-18 x 1-3/4"	
	444718	2	• Locknut, 5/16-18 Hex	
	471214	2	• Grease Fitting	
17	445672	2	• Nut, 5/8-18 Slotted Hex	
18	4121829	1	Ball Joint, Right Hand Thread	
19	4121828	1	Ball Joint, Left Hand Thread	
	4121986	1	• Dust Cover	
20	4124204	2	• Nut, 9/16-18 Slotted Hex	
21	322847	2	Clamp	
22	400192	2	Screw, 5/16-18 x 1-1/2"	
23	4118210	1	Tie Rod	
24	460032	2	Cotter Pin, 1/8 x 1-1/2"	
25	2000012	2	Hub, Wheel	
26	353914	8	Wheel Bolt	
27	367350	2	Washer, Thrust	
28	4132699	1	Arm, Left Steering	
29	4141934	1	Arm, Right Steering	
30	446154	14	Lockwasher, 1/2 Heavy	
31	400406	6	Screw, 1/2-13 x 1-1/4" Hex Head	
32	2000057	2	Motor Mount	
33	4178560	2	Wheel Motor, 2000 Series	
34	554780	2	• Key	
35	554779	2	• Nut	
36	400410	8	Screw, 1/2-13 x 1-3/4" Hex Head	
37	361451	2	Washer, Thrust	
38	471227	1	45° Grease Fitting	
39	446136	2	Lockwasher, 5/16 Heavy	
40	443106	2	Nut, 5/16-18 Hex	
41	460028	2	Cotter Pin, 1/8 x 1"	

See 43.1

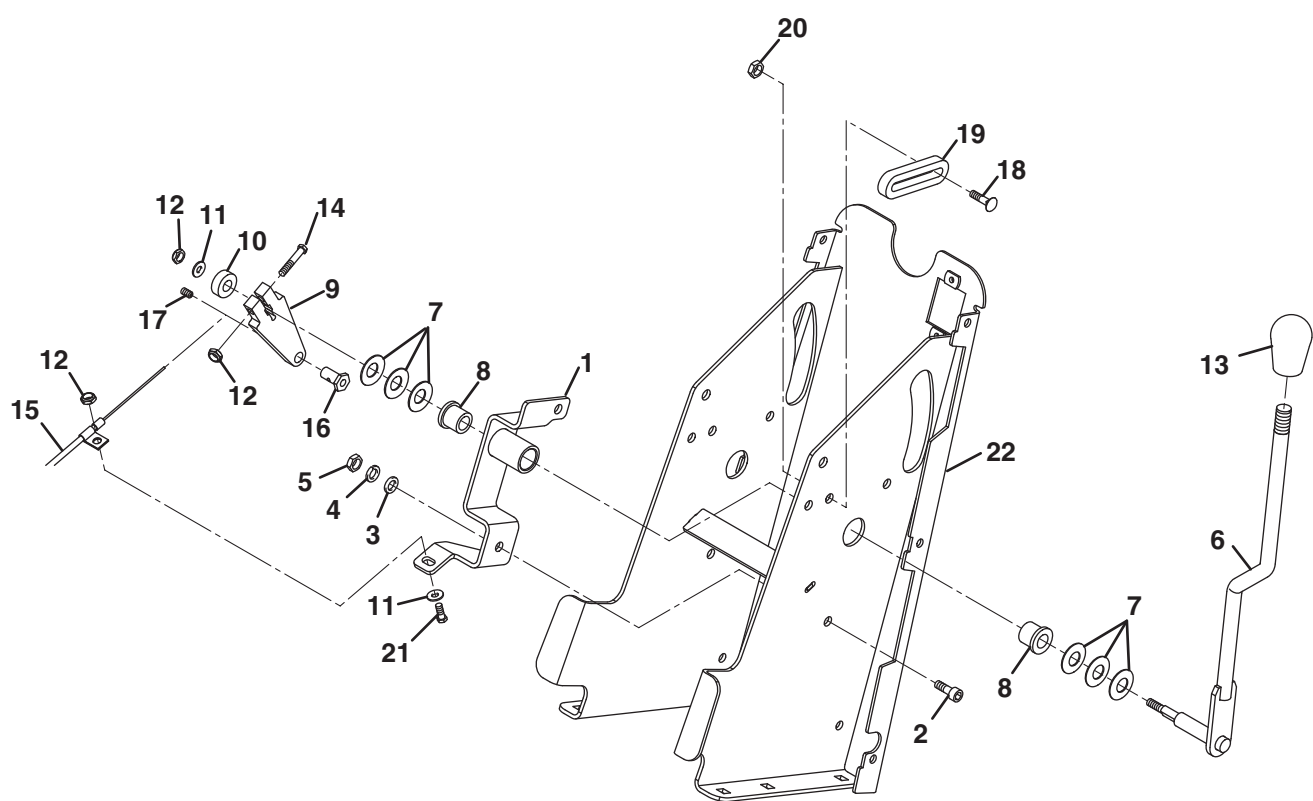
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5002918	1	Actuator, Gas Spring	
2	5002919	1	Cable, Actuator	
3	4217626	1	Tower, Steering	
4	4212981	1	Valve, Steering	
	4197940	1	• Seal Kit	
	339908	2	• O-Ring, -4 ORFS	
	339909	3	• O-Ring, -6 ORFS	
5	4211400	4	Spacer, Steering Valve	
6	4217620	1	Cover, Steering Tower	
7	3005934	2	Bolt, Shoulder	
8	4211401	1	Bracket, Steering Pump	
9	2811547	4	Washer	
10	400192	1	Screw, 5/16-18 x 1-1/2" Hex Head	
11	444718	3	Locknut, 5/16-18 Center	
12	444849	2	Locknut, 3/4-10 Center Jam	
13	450410	4	Lockwasher, M6	
14	447224	1	Lockwasher, 5/8 Internal	
15	400216	1	Screw, 5/16-18 x 2-3/4" Hex Head	
16	445795	4	Nut, 5/16-18 Spiralock Flange	
17	416911	2	Screw, #10-24 x 1/2" Thread Cutting	
18	404016	6	Screw, 1/4-20 x 5/8" Truss Head	
19	446142	2	Lockwasher, 3/8 Heavy	
20	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
21	441614	4	Carriage Bolt, 5/16-18 x 1"	
22	2811364	1	Steering Wheel	
23	2811365	1	• Cap, Steering Wheel	
24	445245	6	Tinnerman Nut	
25	450411	4	Lockwasher, M8	
26	4212980	1	Shaft, Steering	
27	4201840	1	• Shaft Seal	
28	443828	1	• Nut, 5/8-18 Hex	
29	64205-054	4	Screw, M8-1.25 x 130 mm Hex Head	
30	450168	4	Screw, M6-1 x 12 mm Hex Head	

> Change from previous revision

12.1 Throttle Lever

Serial No. All

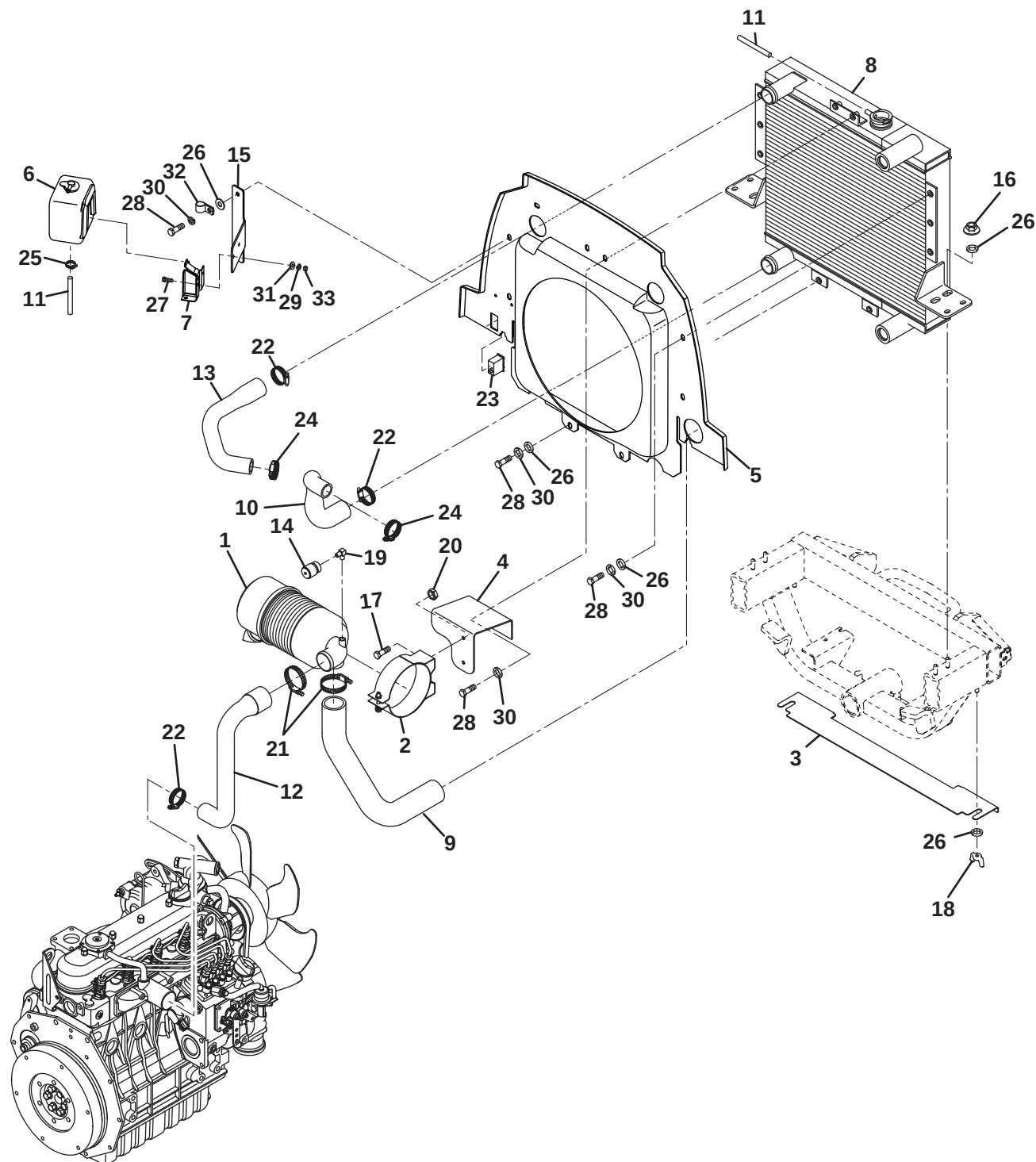


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4215661	1	Bracket, Throttle Support	Includes Item 8
2	434003	2	Screw, 5/16-18 x 1" Socket Head	
3	453009	2	Flat Washer, 5/16	
4	446136	2	Lockwasher, 5/16 Heavy	
5	443106	2	Nut, 5/16-18 Hex	
6	4217280	1	Handle, Throttle	
7	64209-01	6	Conical Spring Washer	
8	2810116	2	Bushing, Flange	
9	4212340	1	Arm, Throttle	
10	352435	1	Spacer	
11	452004	2	Flat Washer, 1/4	
12	445770	3	Nut, 1/4-20 Nylon Insert Hex	
13	4127340	1	Knob	
14	400116	1	Screw, 1/4-20 x 1-3/4" Hex Head	
15	4233120	1	Cable, Throttle	See 16.1 for engine end of cable
16	4239882	1	Pin, Brake Band	
17	400102	1	Set Screw, 1/4-20 x 3/8"	
18	441614	2	Carriage Bolt, 5/16-18 x 1"	
19	4217282	1	Stop, Throttle	See 11.1
20	444718	2	Locknut, 5/16-18 Center	
21	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
22	4217626	1	Tower, Steering	

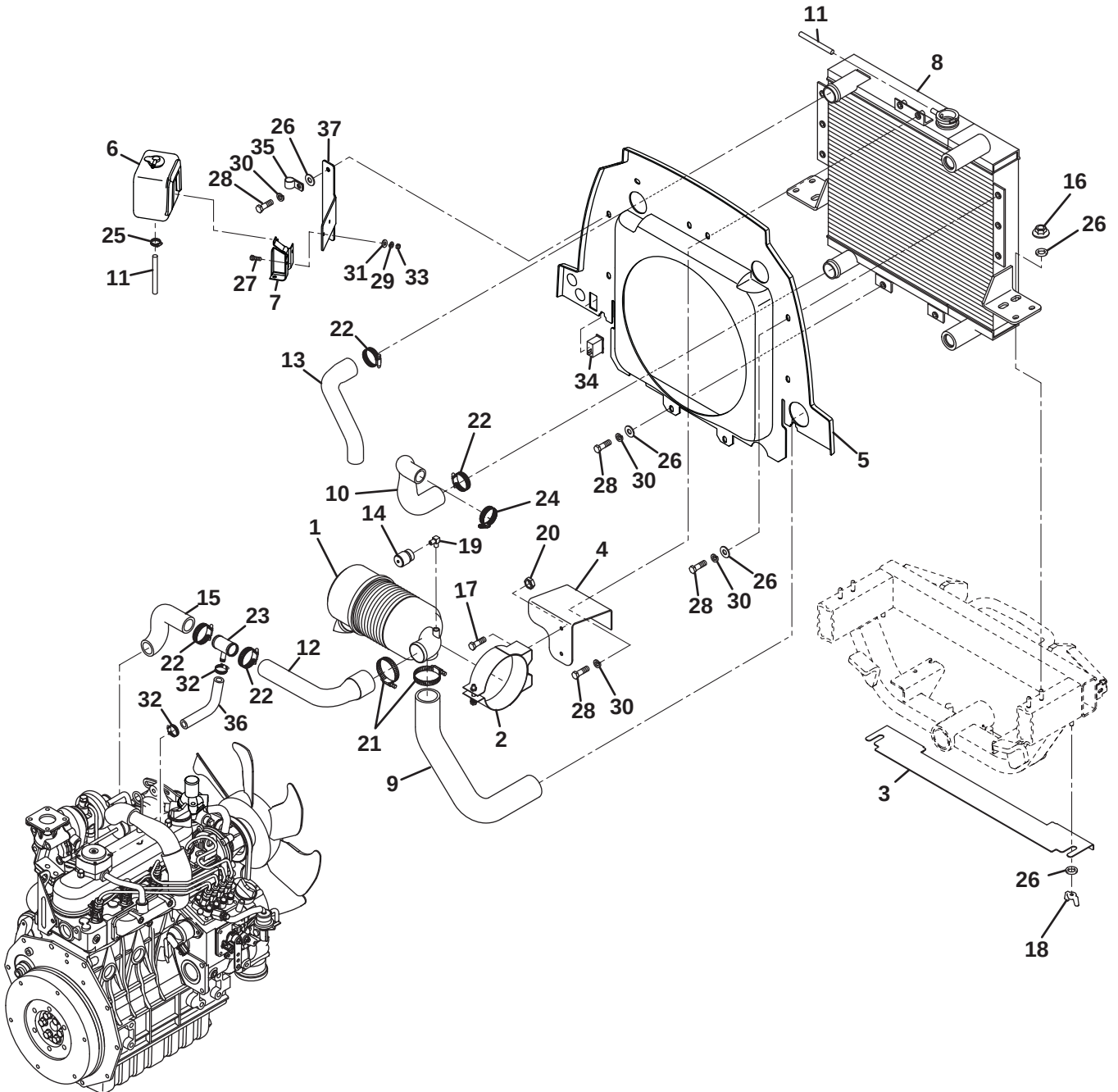
> Change from previous revision

13.1 Radiator and Air Cleaner
Non-Turbo Units

Serial No. 67978 - All
Serial No. 67979 - All
Serial No. 67981 - All
Serial No. 67982 - All



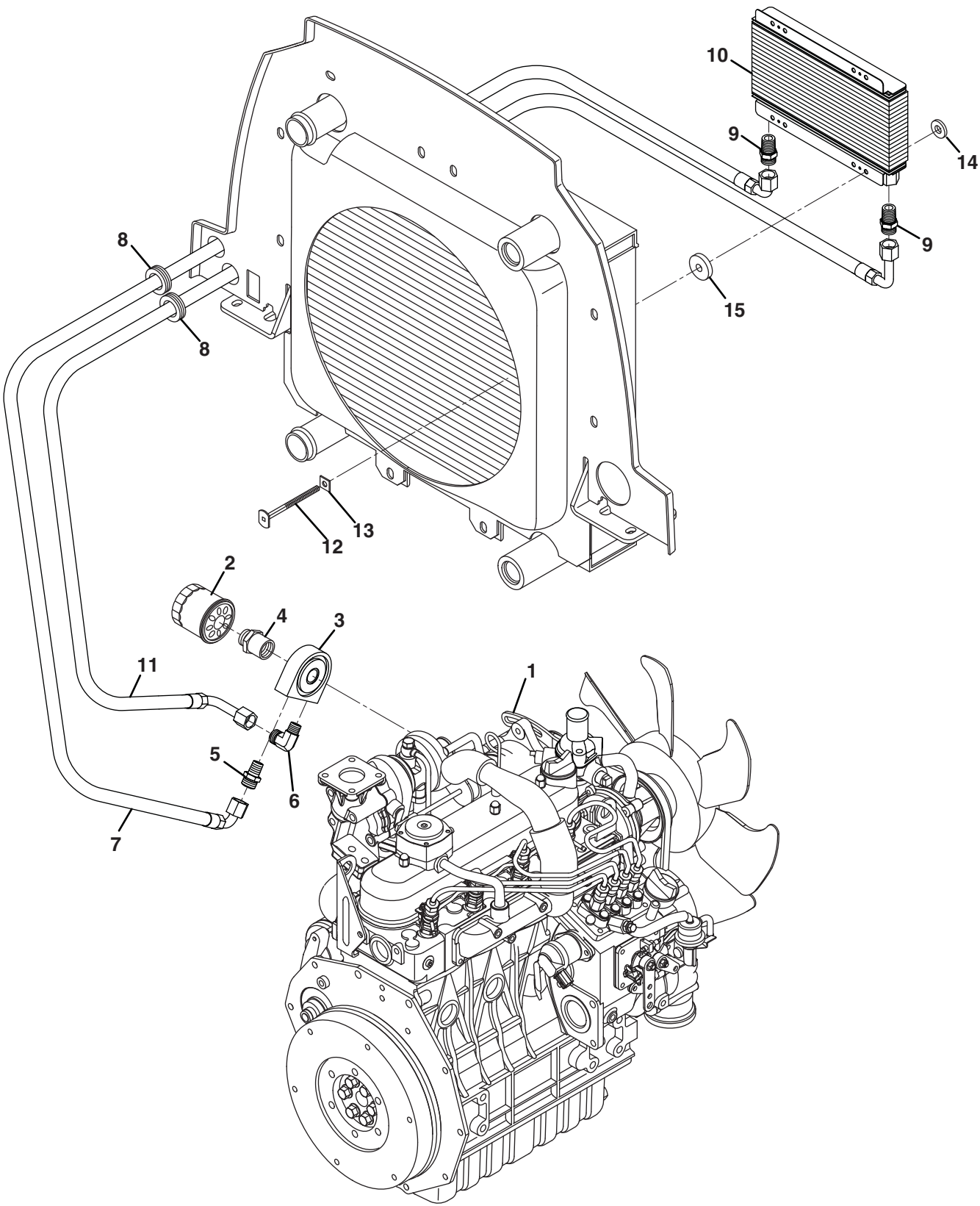
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001965	1	Air Filter	
	5000919	1	• Air Cleaner Element	
	5000920	1	• Cover	
	5000921	1	• Valve	
2	3001388	1	Bracket, Air Filter	Includes Decal 4131663
3	4138381	1	Shroud, Rear Frame	
4	4121722	1	Bracket, Air Cleaner Mounting	
5	4218562	1	Shroud, Radiator Fan	
6	557367	1	Recovery Tank	Includes Decal 365956
7	557374	1	Tank, Stay	
8	4120720	1	Radiator / Hydraulic Oil Cooler	
	550863	1	• Radiator Cap	
9	4121686	1	Hose, Air Cleaner Intake	
10	4121684	1	Hose, Radiator Outlet	
11	554748	1	Hose, Radiator Overflow, Bulk	
12	3006635	1	Hose, Air Cleaner to Engine	
13	4121683	1	Hose, Radiator Inlet	
14	365398	1	Indicator, Air Cleaner	
15	4234240	1	Bracket, Recovery Tank	
16	445796	4	Nut, 3/8-16 Spirallock Flange	
17	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
18	445640	2	Nut, 3/8-16 Steel Wing	
19	3002195	1	Elbow, 90°	
20	445795	2	Nut, 5/16-18 Spirallock Flange	
21	359615	2	Clamp, Hose	REFERENCE SW-4, See 47.1
22	326112	AR	Clamp, Hose	
23	3006434	1	Switch, Backlap	
24	367458	2	Clamp, Hose	
25	48540-01	1	Clamp, Hose	
26	452008	12	Flat Washer, 3/8	
27	362535	2	Screw, M6-1 x 16 mm Hex Head	
28	400264	8	Screw, 3/8-16 x 1-1/4 Hex Head	
29	450410	2	Lockwasher, M6	
30	446140	8	Lockwasher, 3/8	
31	450399	2	Flatwasher, M6	
32	345671	2	Clamp, Hose	
33	450323	2	Nut, M6-1 Hex	



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001965	1	Air Filter	
	5000919	1	• Air Cleaner Element	
	5000920	1	• Cover	
	5000921	1	• Valve	
2	3001388	1	Bracket, Air Filter	
3	4119873	1	Shroud, Rear Frame	
4	4121722	1	Bracket, Air Cleaner Mounting	
5	4234763	1	Shroud, Radiator Fan	
6	557367	1	Recovery Tank	Includes Decal 4131663
7	557374	1	Tank, Stay	
8	4180020	1	Radiator / Hydraulic Oil Cooler	
	550863	1	• Radiator Cap	
9	4121686	1	Hose, Air Cleaner Intake	
10	4121684	1	Hose, Radiator Outlet	
11	554748	1	Hose, Radiator Overflow, Bulk	
12	4169424	1	Hose, Air Cleaner to Pipe	
13	4183402	1	Hose, Radiator Inlet	
14	365398	1	Indicator, Air Cleaner	
15	4169423	1	Hose, Pipe to Turbo Intake	
16	445796	4	Nut, 3/8-16 Spiralock Flange	
17	400182	2	Screw, 5/16-18 x 5/8" Hex Head	
18	445640	2	Nut, 3/8-16 Steel Wing	
19	3002195	1	Elbow, 90°	
20	445795	2	Nut, 5/16-18 Spiralock Flange	
21	359615	2	Clamp, Hose	
22	326112	AR	Clamp, Hose	
23	4168440	1	Pipe, Hose Connection	
24	367458	2	Clamp, Hose	
25	48540-01	1	Clamp, Hose	Included with Engine
26	452008	12	Flat Washer, 3/8	
27	362535	2	Screw, M6-1 x 16 mm Hex Head	
28	400264	8	Screw, 3/8-16 x 1-1/4 Hex Head	
29	450410	2	Lockwasher, M6	
30	446140	8	Lockwasher, 3/8	
31	450399	2	Flatwasher, M6	
32	830930	2	Clamp, Hose	
33	450323	2	Nut, M6-1 Hex	REFERENCE SW-4, See 47.1
34	3006434	1	Switch, Backlap	
35	345671	1	Clamp, Overflow Hose	
36	7332	AR	Hose, 7/16" Fuel	
37	4234240	1	Bracket, Recovery Tank	

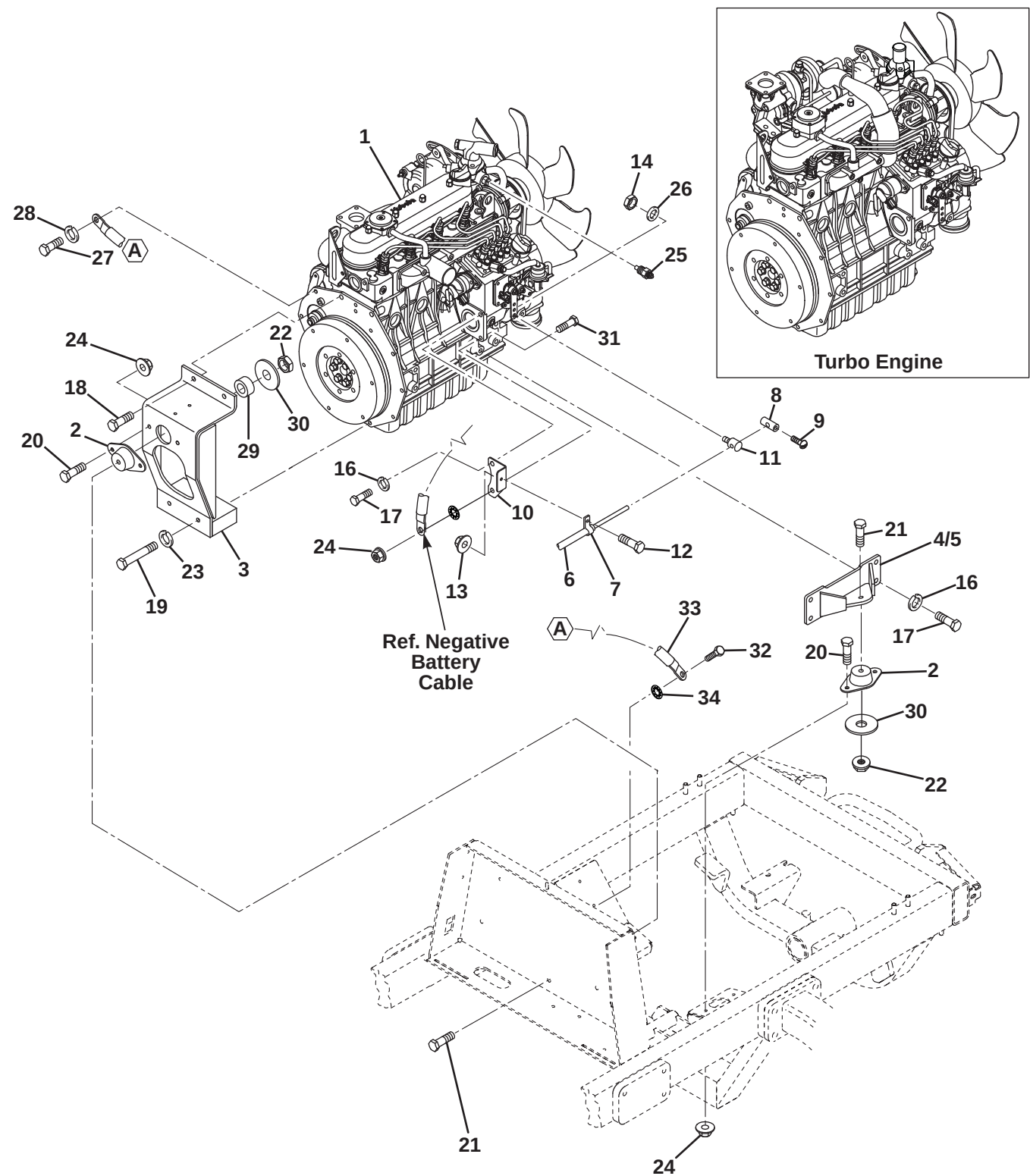
15.1 Remote Oil Cooler
Turbo Units Only

Serial No. 67980 - All
Serial No. 67983 - All



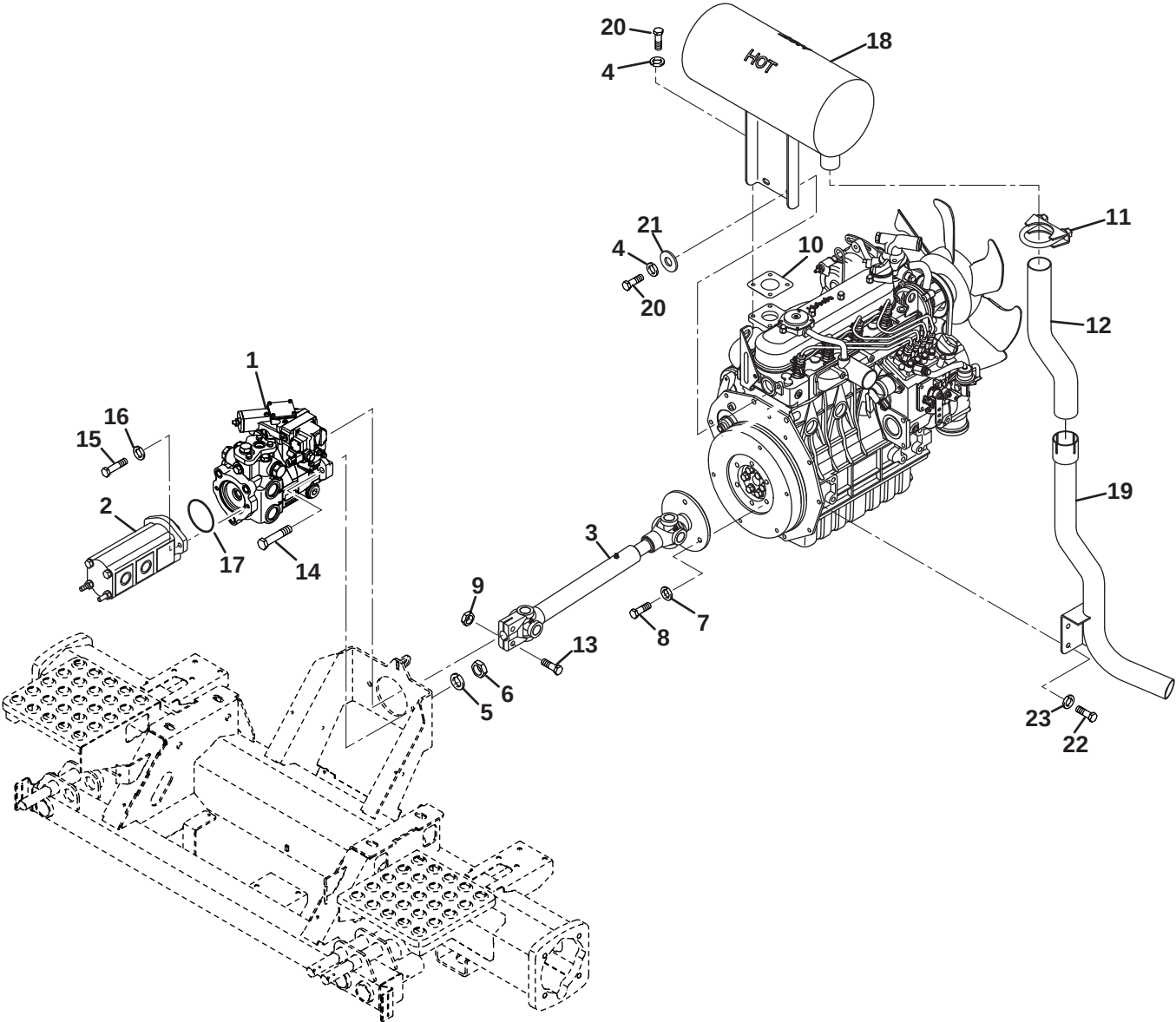
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4162421	1	Engine, Kubota V1505-T-E3B	
2	4177262	1	• Oil Filter	
3	4233320	1	Adapter, Oil Cooler	
4	N/S	1	• Center Post	
5	4237531	1	Fitting, 3/8 NPT x -8 ORFS Straight	
	339910	1	• O-Ring, -8 ORFS	
6	4137099	1	Fitting, 3/8 NPT x -8 ORFS 90°	
	339910	1	• O-Ring, -8 ORFS	
7	4233600	1	Hose, Remote Oil Cooler	
8	829997	2	Grommet	
9	4186441	2	Fitting, 1/2 NPT x -8 ORFS Straight	
	339910	1	• O-Ring, -8 ORFS	
10	4182460	1	Oil Cooler	
11	4233601	1	Hose, Remote Oil Filter	
12	4133252	4	Tie, Oil Cooler	
13	N/S	4	• Pad	
14	N/S	4	Clip	
15	831053	4	Spacer	

> Change from previous revision



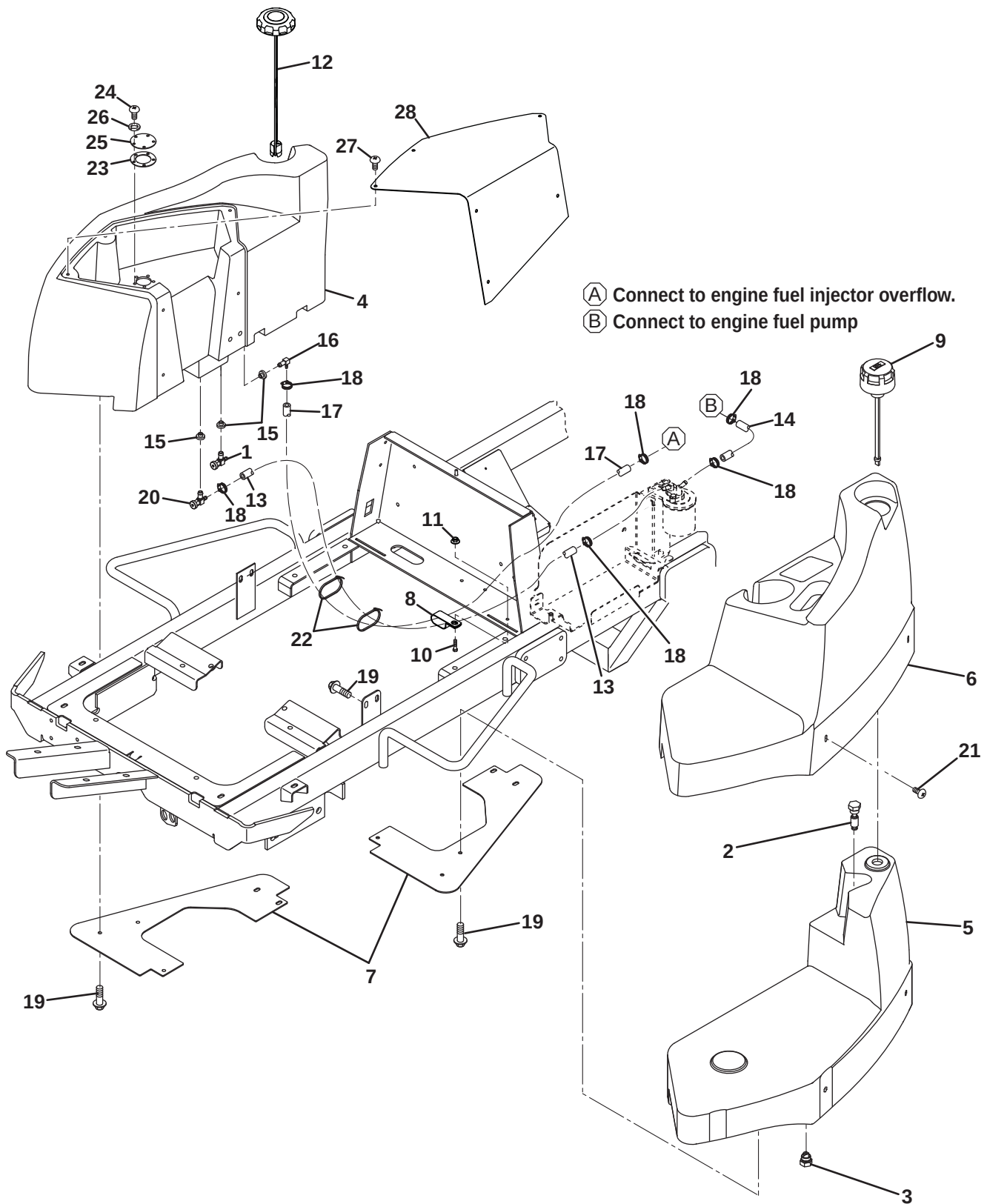
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4162400	1	Engine, Kubota V1505-E3B	LF 550, LF 570
1	4162421	1	Engine, Kubota V1505-T-E3B	LF 550 Turbo, LF 570 Turbo
2	366879	3	Isolator, Engine	
3	1003239	1	Front Engine Mount	
4	1003260	1	Left Side Engine Mount	
5	1003261	1	Right Side Engine Mount	
6	4233120	1	Cable, Throttle	See 12.1 for other end of cable
7	558021	2	• Clip	
8	5003460	1	• Wire Stop	
9	403740	1	• • Screw, #8-32 x 1/2" Hex Head	
10	3006797	1	Bracket, Cable Mounting	
11	554988	1	Pivot, Throttle Cable	
12	400108	1	Screw, 1/4-20 x 3/4" Hex Head	
13	445794	1	Nut, 1/4-20 Spiralock Flange	
14	444708	1	Locknut, 1/4-20 Center	
15	452006	2	Flat Washer, 5/16	
16	363485	12	Lockwasher, M10 Heavy	
17	366884	9	Screw, M10-1.25 x 20mm Hex Head	
18	362263	2	Screw, M10-1.25 x 25mm Hex Head	
19	361695	2	Screw, M801.25 x 110mm Hex Head	
20	400188	8	Screw, 5/16-18 x 1" Hex Head	
21	400272	3	Screw, 3/8-16 x 2-1/4" Hex Head	
22	444762	3	Locknut, 3/8-16 Center	
23	446136	2	Lockwasher, 5/16 Heavy	
24	445795	7	Nut, 5/16-18 Spiralock Flange	
25	364501	1	Temperature Sender	REFERENCE R-2, See 47.1
26	453023	1	Flat Washer, 1/4	
27	363586	1	Screw, M8-1.25 x 20 mm Hex Head	Replaces 361898
28	446134	1	Lockwasher, 5/16	
29	3010575	1	Spacer, Isolator	
30	367031	3	Washer, Isolator	
31	400190	1	Screw, 5/16-18 x 1-1/4" Hex Head	
32	409811	1	Screw, 5/16-18 x 3/4" Thread Cutting	
33	2810424	1	Cable, Ground	
34	447214	2	Lockwasher, 5/16 Internal Tooth	
35				

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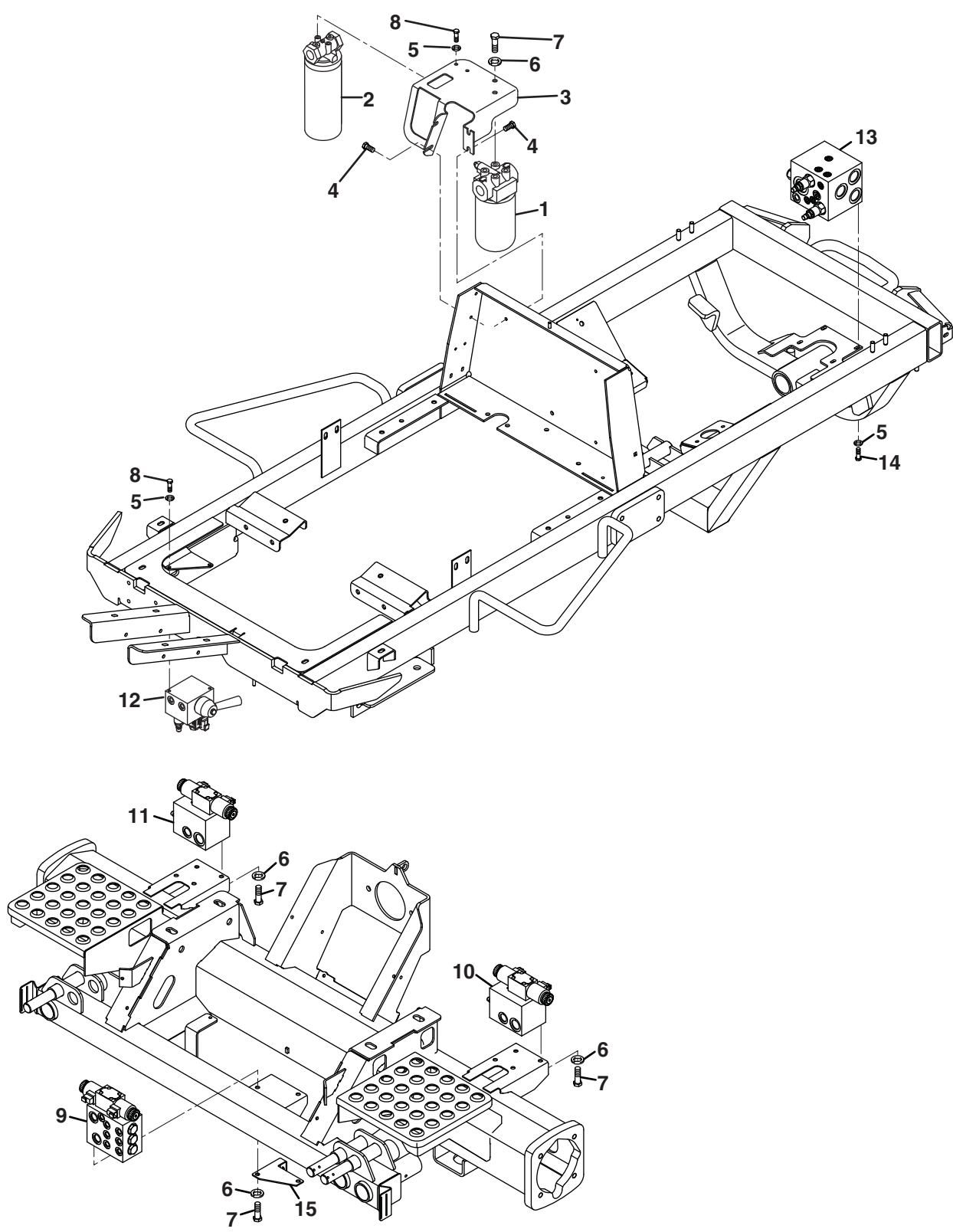
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4209500	1	Pump, Traction	
	5003034	1	• Seal Kit	
	5003433	1	• Shaft Seal Kit	
	5003434	2	• System Relief Kit	
	4224120	1	• Charge Relief Kit	
	4224121	1	• O-Ring, Charge Relief	
	4224140	1	• EDC Kit	
	4224180	1	• O-Ring, EDC	
	4224181	2	• O-Ring, EDC Screw	
	4229220	1	• EDC Connector, Female Socket	
	4229221	2	• Pin, Male	
	4229222	2	• Seal, Wire	
2	1002154	1	Pump, 3 Section Gear	
	5003036	1	• Seal Kit	
3	1002854	1	Driveshaft	
	554663	2	• Cross and Bearing Kit	
4	446136	6	Lockwasher, 5/16 Heavy	
5	446154	2	Lockwasher, 1/2 Heavy	
6	443118	2	Nut, 1/2-13 Hex	
7	363485	3	Lockwasher, M10 Heavy	
8	362263	3	Screw, M10-1.25 x 20mm Hex Head	
9	444762	2	Locknut, 3/8-16 Center	
10	553020	1	Gasket, Exhaust	
11	348856	1	Clamp, Exhaust	
12	3007889	1	Sleeve Insulating	
13	400266	2	Screw, 3/8-16 x 1-1/2" Hex Head	
14	400410	2	Screw, 1/2-13 x 1-3/4" Hex Head	
15	400264	2	Screw, 3/8-16 x 1-1/4" hex Head	
16	446142	2	Lockwasher, 3/8 Heavy	
17	362743	1	O-Ring Seal	
18	1004653	1	Muffler	LF 550, LF 570
18	4181902	1	Muffler	LF 550 Turbo, LF 570 Turbo
19	1004598	1	Tailpipe	
20	363586	6	Screw, M8-1.25 x 20mm Hex Head	
21	452006	2	Flat Washer, 5/16	
22	363485	2	Lockwasher, M10 Heavy	
23	366884	2	Bolt, M10-1.25 x 25mm Hex Head	

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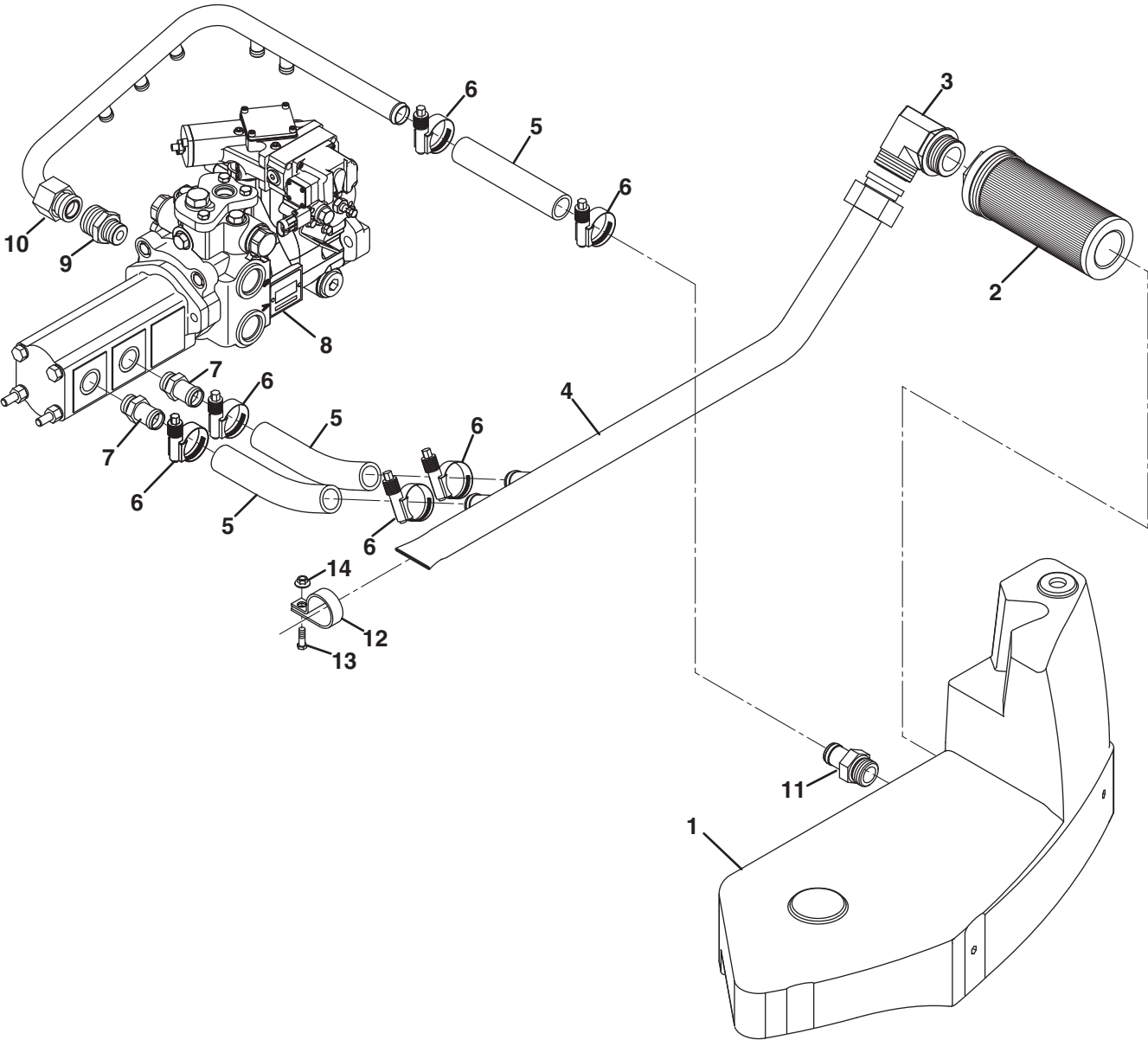
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	132647	1	Valve, Shut Off	REFERENCE SW-9, See 47.1
2	3001279	1	Switch, Float	
3	3002397	1	Plug, Magnetic	
	339899	1	• O-Ring	
4	4237504	1	Fuel Tank	
5	3005871	1	Hydraulic Tank	
6	3005872	1	Shell, Tank Cover	
7	3006243	2	Plate, Tank Mounting	
8	3007558	2	Clamp, Double Tube	
9	3006332	1	Breather Filter	
10	400112	1	Screw, 1/4-20 x 1" Hex Head	
11	445784	1	Nut, 1/4-20 Hex Whizlock	
12	4237622	1	Fuel Tank Cap with Gauge	
13	554748	1	Fuel Line, 5/16" I.D. Cut to 72 Inches	
14	554748	1	Fuel Line, 5/16" I.D. Cut to 18 Inches	
15	361117	3	Bushing, Fuel Tank	
16	361748	1	Valve, Overflow	
17	554752	1	Fuel Line, 3/16 I.D. Cut to 70 Inches	
18	48540-01	6	Clamp, Hose	
19	403769	14	Screw, 1/4-20 x 1/2" Hex Flange	
20	2810702	1	Valve, Needle	
21	404016	5	Screw, 1/4-20 x 5/8" Truss Head	
22	473142	2	Cable Tie4 .19 x 14-16 UV Black	
23	5003374	1	Gasket, Fuel	
24	403910	5	Screw, #10-24 x 1/2" Truss Head	
25	4238043	1	Plate, Fuel Block-Off	
26	446118	5	Lockwasher, #10	
27	403908	6	Screw, #10-24 x 3/8" Truss Head	
28	4222560	1	Plate, Blanking	

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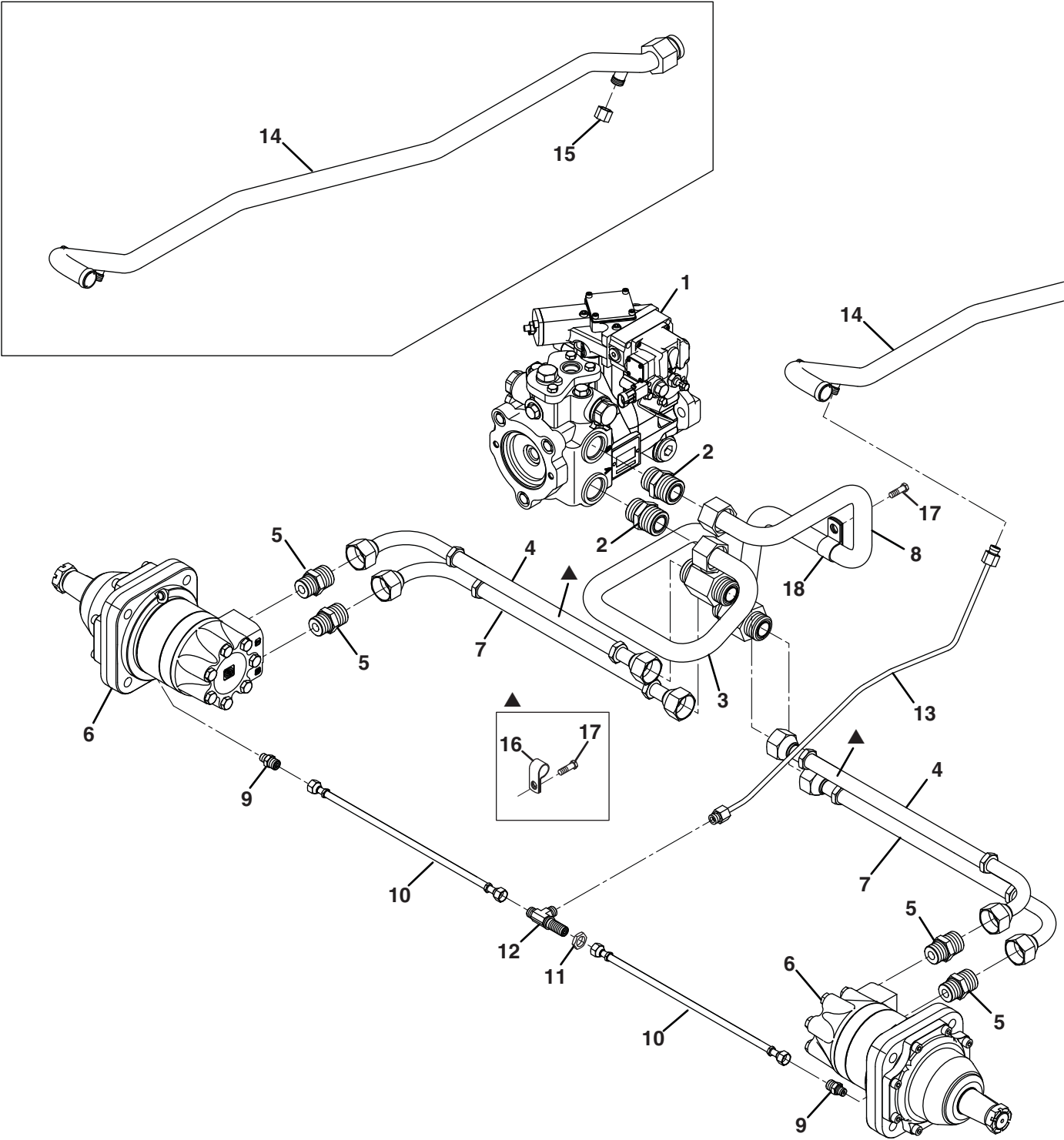
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123015	1	Charge Filter	See 24.1 and 27.1
	556417	1	• Head	
	2811255	1	• Oil Filter Cartridge	
	556419	1	• Charge Pressure Switch	REFERENCE SW-1, See 47.1
2	132704	1	Return Filter	See 25.1
	557772	1	• Oil Filter Cartridge	
3	3007290	1	Bracket, Filter	
4	409811	4	Screw, 5/16-18 x 5/8" Thread Cutting	
5	446130	8	Lockwasher, 1/4 Heavy	
6	446142	8	Lockwasher, 3/8 Heavy	
7	400258	8	Screw, 3/8-16 x 3/4" Hex Head	
8	400108	4	Screw, 1/4-20 x 3/4" Hex Head	
9	4195081	1	Lift Valve	See 44.1, 28.1, and 29.1
10	4195041	1	Reel Valve, Front	See 41.1 and 26.1
11	4195041	1	Reel Valve, Rear	See 41.1 and 27.1
12	4211880	1	Valve, Brake	See 24.1
13	4209880	1	Valve, 4WD	See 23.1
14	400106	4	Screw, 1/4-20 x 5/8" Hex Head	
15	4244403	1	Bracket, Clamp	

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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3005871	1	Tank, Hydraulic	See 18.1
2	365959	1	Strainer, Tank	
	2812075	1	• O-Ring	
3	340090	1	Fitting, 24-24 90°	
	339915	1	• O-Ring, -24 ORFS	
	339903	1	• O-Ring, -24 ORB	
4	1003992	1	Tube, Gear Pump Suction	
5	4148857	3	Hose, Tank	
6	3008673	6	Clamp, Constant Torque Hose	
7	3001296	2	Fitting, -12 ORB x 1" barbed	
	339900	1	• O-Ring, -12 ORB	
8	REF	1	Pump Assembly	See 17.1
9	339998	1	Fitting, 16-12 Straight	
	339913	1	• O-Ring, -16 ORFS	
	339900	1	• O-Ring, -12 ORB	
10	4113601	1	Tube, Return Manifold	See 26.1 and 27.1 for connecting tubes
	339908	5	• O-Ring, -4 ORFS	
11	361689	1	Fitting, -16 ORB x 1" barbed	Secure tube to frame.
	339901	1	• O-Ring, -16 ORB	
12	364190	1	Clamp, 1-1/2" Diameter	
13	400264	1	Screw, 3/8-16 x 1-1/4" Hex Head	
14	445796	1	Nut, 3/8-16 Spirallock Flange	

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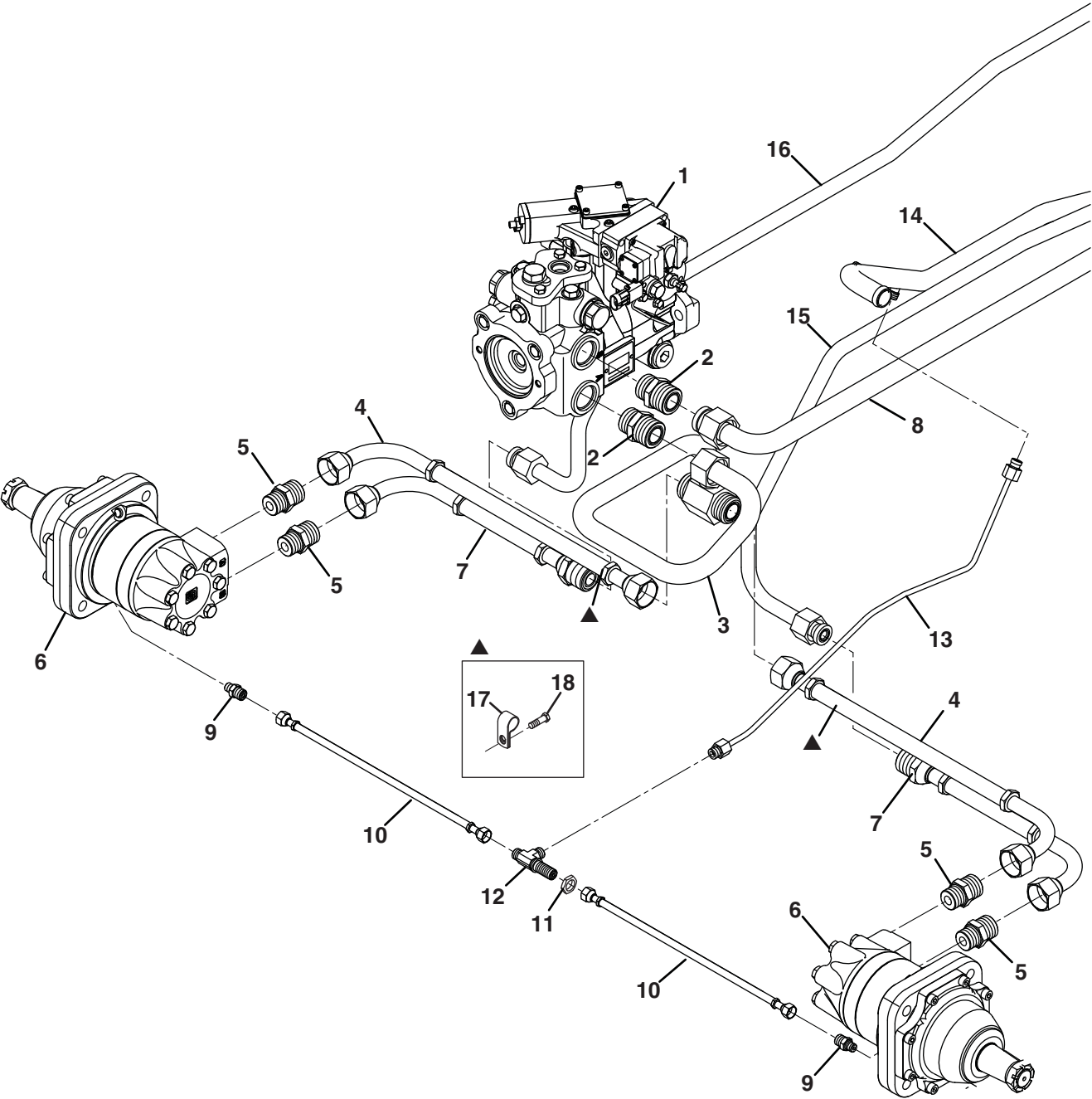


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4209500	1	Pump, Traction	See 17.1
2	339999	2	Fitting, 16-16 Straight	Traction Pump Port A
	339913	1	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
3	4213140	1	Tube, Forward Traction	
	339913	2	• O-Ring, -16 ORFS	
4				See 7.1
5	339994	4	Fitting, 12-12 Straight	
	339912	1	• O-Ring, -12 ORFS	
	339900	1	• O-Ring, -12 ORB	
6	4209440	2	Motor, Front Traction	
7	4222181	4	Hose, Traction Motor Port	Traction Pump Port B
8	4222180	1	Tube, Reverse Traction	
	339913	2	• O-Ring, -16 ORFS	
9	339972	2	Fitting, 4-4 Straight	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	See 25.1
10	4217720	2	Hose, Front Traction Motor Drain	
11	339960	1	Nut, 9/16-18 Bulkhead Fitting	
12	340214	1	Tee, 4-4-4 Bulkhead Run	
	339908	3	• O-Ring, -4 ORFS	
13	4212141	1	Tube, Front Motor Drain	Upper traction hoses to axle
14	4215400	1	Tube, Oil Cooler Return	
	339908	2	• O-Ring, -4 ORFS	
	339909	1	• O-Ring, -6 ORFS	
15	339921	1	Cap, -6 ORFS	
16	365566	2	Hose Clamp, 1-1/4"	
17	409811	3	Screw, 5/16-18 x 5/8" Thread Cutting	
18	354080	1	Hose Clamp, 1"	

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22.1 Front 4WD Traction Hydraulics

Serial No. 67979 - All
Serial No. 67980 - All
Serial No. 67982 - All
Serial No. 67983 - All

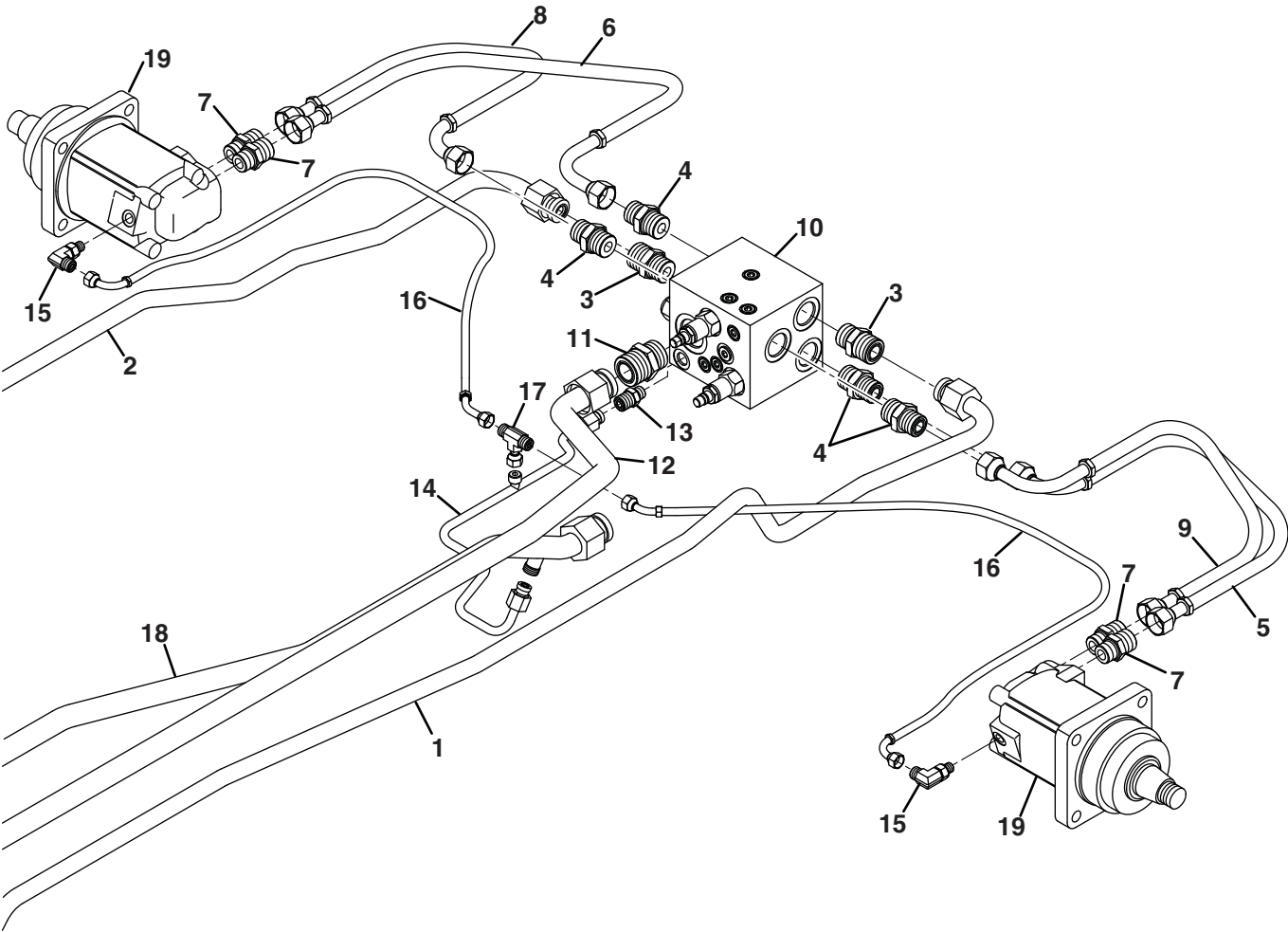


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4209500	1	Pump, Traction	See 17.1
2	339999	2	Fitting, 16-16 Straight	
	339913	1	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
3	4213140	1	Tube, Forward Traction	
	339913	2	• O-Ring, -16 ORFS	Traction Pump Port A
4	4212140	2	Hose, Upper Traction Motor Port	
5	339994	4	Fitting, 12-12 Straight	
	339912	1	• O-Ring, -12 ORFS	
	339900	1	• O-Ring, -12 ORB	
6	4209440	2	Motor, Front Traction	See 7.1
7	4213600	2	Hose, Lower Traction Motor Port	
	339912	1	• O-Ring, -12 ORFS	
8	4213420	1	Tube, 4WD Reverse Traction	
9	339972	2	Fitting, 4-4 Straight	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
10	4217720	2	Hose, Front Traction Motor Drain	
11	339960	1	Nut, -4 Bulkhead Fitting	
12	340214	1	Tee, 4-4-4 Bulkhead Run	
	339908	3	• O-Ring, -4 ORFS	See 25.1
13	4212141	1	Tube, Front Motor Drain	
14	4215400	1	Tube, Oil Cooler Return	
	339908	2	• O-Ring, -4 ORFS	
	339909	1	• O-Ring, -6 ORFS	
15	4209283	1	Tube, Left 4WD Forward Traction	Upper traction hoses to axle
16	4210280	1	Tube, Right 4WD Forward Traction	
17	365566	2	Hose Clamp	
18	409811	2	Screw, 5/16-18 x 5/8" Thread Cutting	

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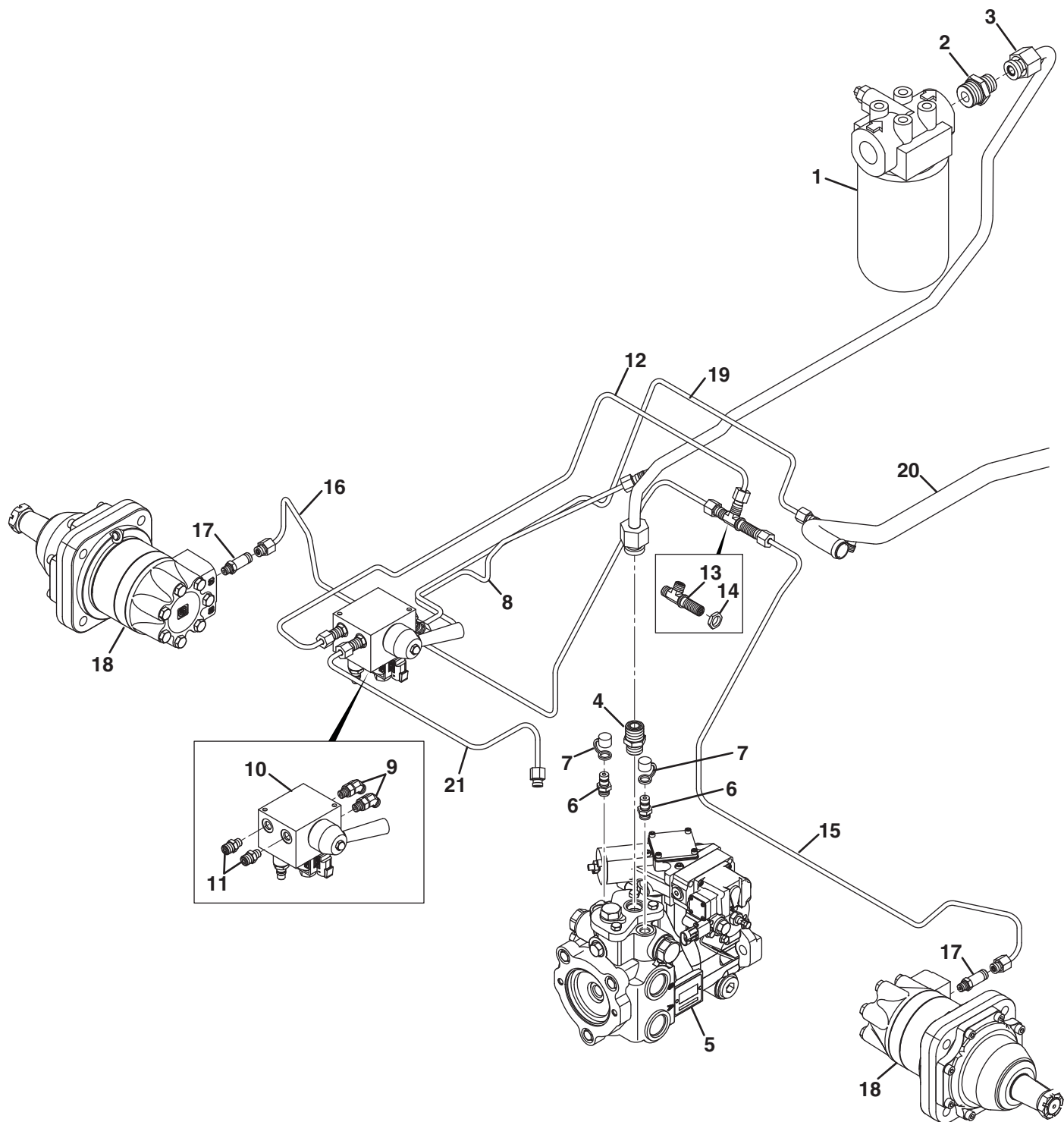
23.1 Rear 4WD Traction Hydraulics

Serial No. 67979 - All
Serial No. 67980 - All
Serial No. 67982 - All
Serial No. 67983 - All



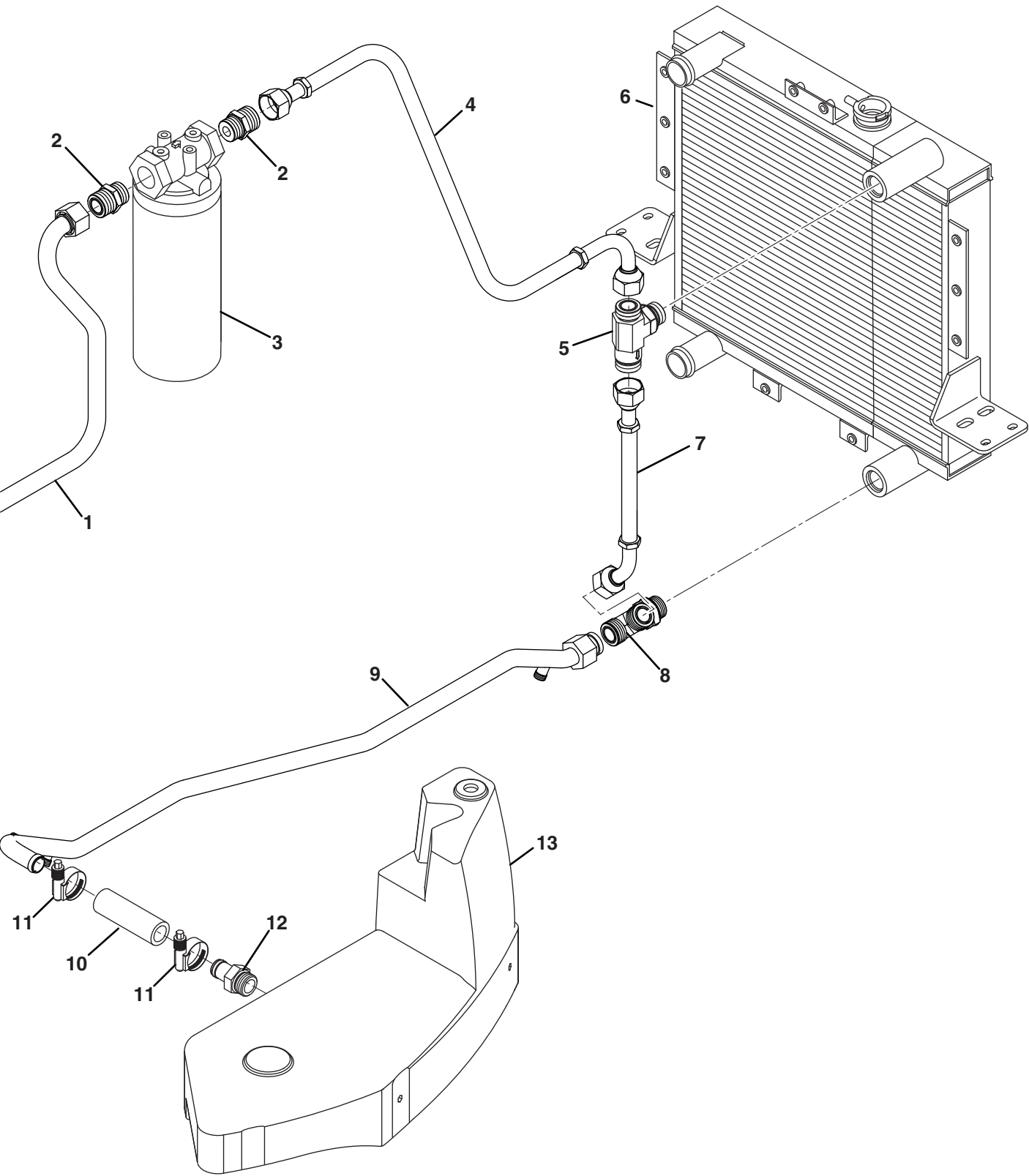
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4209283	1	Tube, Left 4WD Forward Traction	4WD Valve Port LF, See 22.1
2	4210280	1	Tube, Right 4WD Forward Traction	4WD Valve Port RF, See 22.1
3	339994	2	Fitting, 12-12 Straight	
	339912	1	• O-Ring, -12 ORFS	
	339900	1	• O-Ring, -12 ORB	
4	339990	4	Fitting, 10-12 Straight	
	339911	1	• O-Ring, -10 ORFS	
	339900	1	• O-Ring, -12 ORB	
5	4238502	1	Hose, 4WD Valve to Left Rear Motor	4WD Valve Port LRF Left Motor Port B
6	4238502	1	Hose, 4WD Valve to Right Rear Motor	4WD Valve Port RRF Right Motor Port A
7	339989	4	Fitting, 10-10 Straight	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
8	4238502	1	Hose, Right Rear Motor to 4WD Valve	4WD Valve Port RRR Right Motor Port B
9	4238502	1	Hose, Left Rear Motor to 4WD Valve	4WD Valve Port LRR Left Motor Port A
10	4209880	1	Valve, 4WD	See 19.1
11	339999	1	Fitting, 16-16 Straight	4WD Valve Port REV
	339913	1	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
12	4213420	1	Tube, 4WD Reverse Traction	
13	339979	1	Fitting, 6-6 Straight	4WD Valve Port DRN
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
14	4209281	1	Tube, 4WD Valve Drain	
15	340055	1	Fitting, 4-4 90°	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
16	4227040	2	Hose, Rear Motor Case Drain	
17	340142	1	Tee, 4-4-4 Swivel Branch	
	339908	2	• O-Ring, -4 ORFS	
18	4215400	1	Tube, Oil Cooler Return	See 25.1
	339908	2	• O-Ring, -4 ORFS	
	339909	1	• O-Ring, -6 ORFS	
19	4178560	2	Motor, Rear Traction	See 10.1

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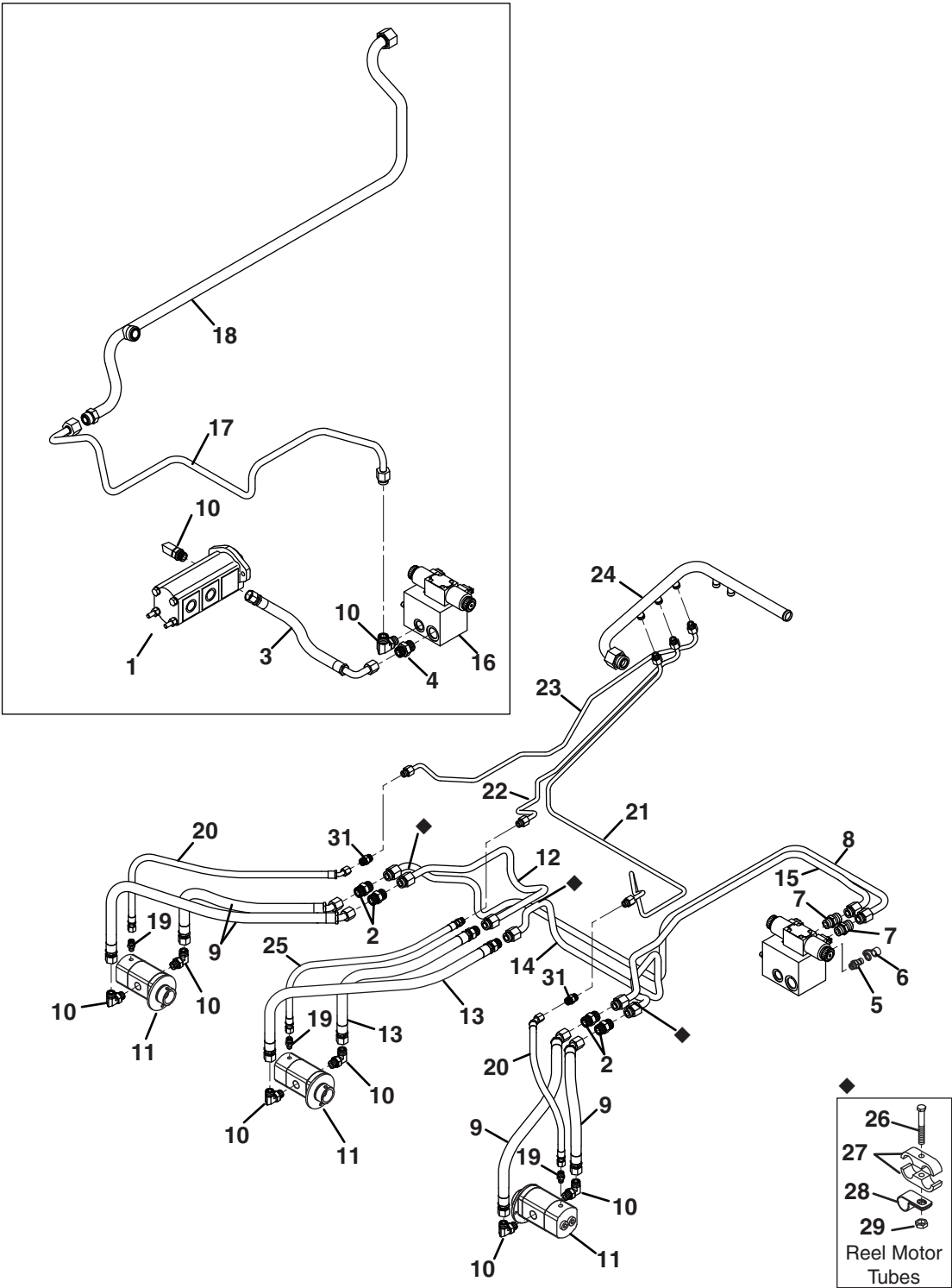
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	123015	1	Charge Filter	See 19.1
	556417	1	• Filter Head	
	2811255	1	• Filter Element Cartridge	
	556419	1	• 25 PSI Charge Pressure Switch	
2	340011	1	Fitting, 10-16 Straight	
	339911	1	• O-Ring, -10 ORFS	
	339901	1	• O-Ring, -16 ORB	
3	4214460	1	Tube, Charge Filter to Traction Pump	
	339908	1	• O-Ring, -4 ORFS	
4	339989	1	Fitting, 10-10 ORB Straight	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
5	4209500	1	Pump, Traction	See 17.1
6	365466	2	Fitting, -6 ORB Diagnostic	
	339897	1	• O-Ring, -6 ORB	
7	363030	2	Dust Cover	
8	4215340	1	Tube, Charge Tube to Brake Valve	Brake Valve Port CRG
9	340022	2	Fitting, 4-4 45°	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
10	4211880	1	Valve, Brake	See 19.1
11	339972	2	Fitting, 4-4 Straight	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
12	4214120	1	Tube, Brake Valve to Tee	Brake Valve Port BR
13	340214	1	Tee, 4-4-4 Bulkhead Run	
	339908	3	• O-Ring, -4 ORFS	
14	339960	1	Nut, 9/16-18 Bulkhead Fitting	
15	4213700	1	Tube, Left Motor Brake Release	
16	4213701	1	Tube, Right Motor Brake Release	
17	340008	1	Fitting, 4-4 Straight	
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
18	4209440	2	Motor, Front Traction	See 7.1
19	4214140	1	Tube, Brake Valve to Oil Cooler Tube	Brake Valve Port DRN
20	4215400	1	Tube, Oil Cooler Return	See 25.1
	339908	2	• O-Ring, -4 ORFS	
	339909	1	• O-Ring, -6 ORFS	
21	4215080	1	Tube, Steering Tube to Brake Valve	Brake Valve Port ST, See 30.1

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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4217400	1	Tube, Return Filter	See 26.1 and 29.1 for connecting tubes
	339912	1	• O-Ring, -12 ORFS	
	339913	1	• O-Ring, -16 ORFS	
2	339999	2	Fitting, 16-16 Straight	See 19.1
	339913	1	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
3	132704	1	Filter, Return Hydraulic	Flow arrow should point down.
	557772	1	• Filter Element	
4	4129642	1	Hose, Return Filter to Oil Cooler	
5	4123166	1	Tee, 16-16-16 25 PSI Check Valve	See 21.1, 22.1, 23.1, and 24.1 for connecting tubes
	339913	2	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
6	4120720	1	Radiator/Hydraulic Oil Cooler	See 18.1
7	4129656	1	Hose, Oil Cooler Bypass	
8	340267	1	Tee, 16-16-16 Run	
	339913	2	• O-Ring, -16 ORFS	
	339901	1	• O-Ring, -16 ORB	
9	4215400	1	Tube, Oil Cooler Return	
	339908	2	• O-Ring, -4 ORFS	
	339909	1	• O-Ring, -6 ORFS	
10	4124647	1	Hose, Return Tube	
11	3008673	2	Clamp, Constant Torque Hose	
12	361689	1	Fitting, -16 ORB x 1" barbed	
	339901	1	• O-Ring, -16 ORB	
13	3005871	1	Tank, Hydraulic	

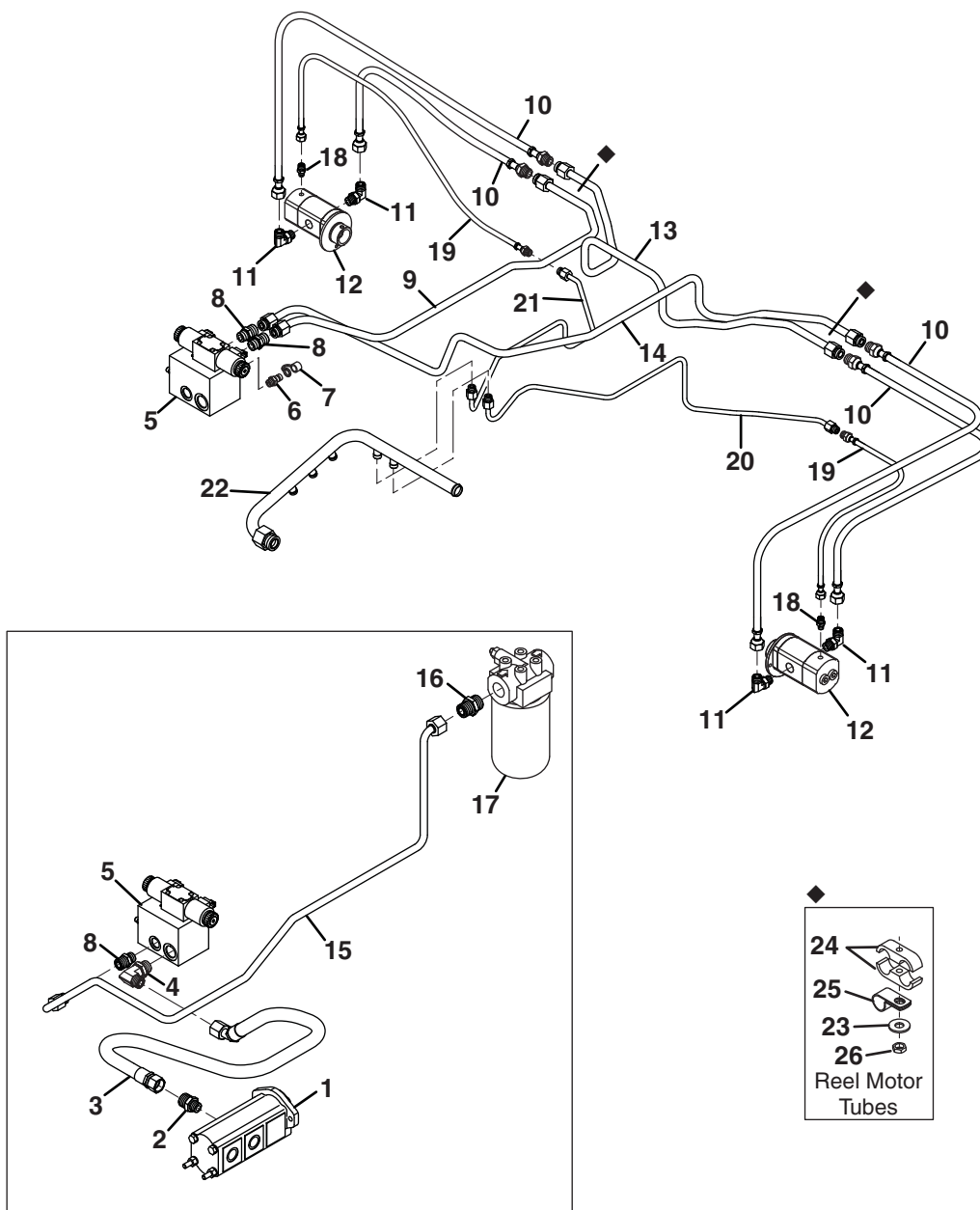
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1002154	1	Gear Pump	See 17.1
2	340292	4	Union, -10 ORFS x -10 ORFS Straight	
	339911	2	• O-Ring, -10 ORFS	
3	4244263	1	Hose, Pump to Front Reel Valve	
4	339990	1	Fitting, -10 ORFS x -12 ORB Straight	
	339911	1	• O-Ring, -10 ORFS	
	339900	1	• O-Ring, -12 ORB	
5	365466	1	Fitting, -6 ORB Diagnostic	
	339897	1	• O-Ring, -6 ORB	
6	363030	1	Dust Cover	
7	339989	2	Fitting, -10 ORFS x -10 ORB Straight	Used on LF 550 Used on LF 570
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
8	4217700	1	Tube, Reel Valve to Right Reel	
9	4218406	4	Hose, Left and Right Reel	
10	340070	8	Fitting, -10 ORFS x -10 ORB 90°	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
11	2822503	3	Reel Motor, 5" Reel	
11	1002620	3	Reel Motor, 7" Reel	
12	4218418	1	Tube, Right to Center Reel	See 19.1
13	4216640	2	Hose, Center Reel	
14	4218419	1	Tube, Center to Left Reel	
15	4217701	1	Tube, Left Reel to Reel Valve	
16	4195041	1	Valve, Reel	
17	4218100	1	Tube, Reel Valve to Filter Tube	
18	4217400	1	Tube, Return Filter	
	339912	1	• O-Ring, -12 ORFS	
	339913	1	• O-Ring, -16 ORFS	
19	339972	3	Fitting, -4 ORFS x -4 ORB Straight	See 25.1
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
20	4218408	2	Hose, Left and Right Motor Drain	
21	4218020	1	Tube, Left Front Reel Motor Drain	
22	4218021	1	Tube, Center Reel Motor Drain	
23	4218022	1	Tube, Right Front Reel Motor Drain	
24	4113601	1	Tube, Return Manifold	
	339908	5	• O-Ring, -4 ORFS	
25	4216620	1	Hose, Center Reel Drain	See 20.1
26	400118	3	Screw, 1/4-20 x 1"	
27	3003110	3	Clamp, Double 5/8" Tube	
28	366811	3	Clamp, 3/8" Tube	
29	444708	3	Locknut, 1/4-20 Center	
30	473142	5	Cable Tie, 3/16" x 14"	
31	340288	2	Union, -6 ORFS x -6 ORFS Straight	
	339909	2	O-Ring, -6 ORFS	

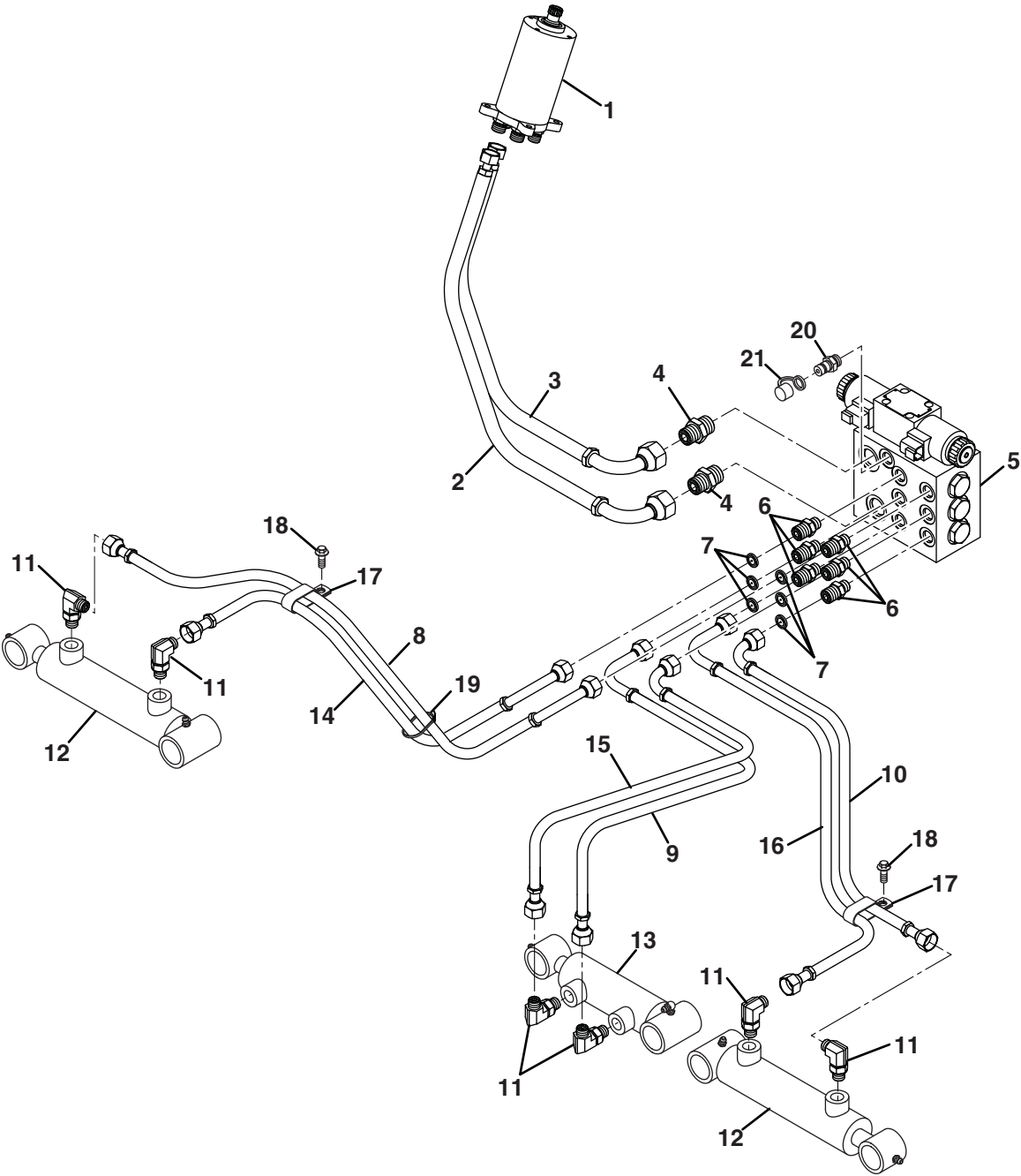
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27.1 Rear Reel Hydraulics



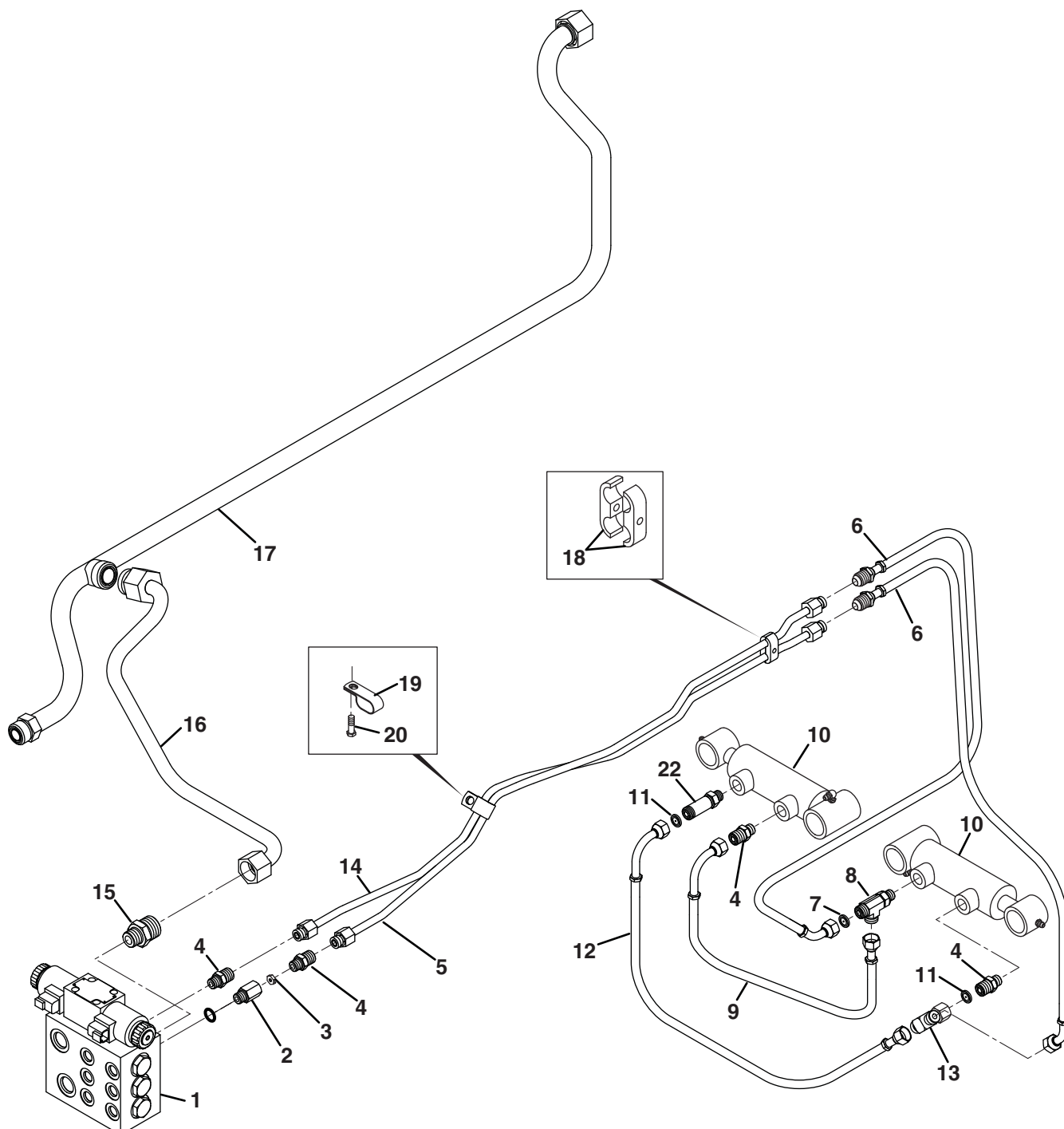
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1002154	1	Gear Pump	See 17.1
2	340033	1	Fitting, -10 ORFS x -10 ORB 45°	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
3	4244264	1	Tube, Pump to Rear Reel Valve	See 19.1
4	340071	1	Fitting, -10 ORFS x -12 ORB Straight	
	339911	1	• O-Ring, -10 ORFS	
	339900	1	• O-Ring, -12 ORB	
5	4195041	1	Reel Valve	See 19.1
6	365466	1	Fitting, -6 ORB Diagnostic	
	339897	1	• O-Ring, -6 ORB	
7	363030	1	Dust Cover	
8	339989	3	Fitting, -10 ORFS x -10 ORB Straight	Used on LF 550 Used on LF 570
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
9	4216622	1	Tube, Reel Valve to Right Rear Reel	
10	4216640	4	Hose, Rear Reel	See 19.1
11	340070	4	Fitting, -10 ORFS x -10 ORB 90°	
	339911	1	• O-Ring, -10 ORFS	
	339899	1	• O-Ring, -10 ORB	
12	2822503	2	Reel Motor, 5" Reel	See 19.1
12	1002620	2	Reel Motor, 7" Reel	
13	4216623	1	Tube, Right Rear to Left Rear Reel	
14	4216621	1	Tube, Left Rear Reel to Reel Valve	
15	2812272	1	Tube, Reel Valve to Charge Filter	See 20.1
16	339996	1	Fitting, -12 ORFS x -16 ORB Straight	
	339912	1	• O-Ring, -12 ORFS	
	339901	1	• O-Ring, -16 ORB	
17	123015	1	Charge Filter	See 20.1
	556417	1	• Filter Head	
	2811255	1	• Filter Element Cartridge	
	556419	1	• 25 PSI Charge Pressure Switch	
18	339972	2	Fitting, -4 ORFS x -4 ORB Straight	See 31.1
	339908	1	• O-Ring, -4 ORFS	
	339896	1	• O-Ring, -4 ORB	
19	4216620	2	Hose, Rear Reel Motor Drain	
20	4216625	1	Tube, Left Rear Reel Motor Drain	See 31.1
21	4216624	1	Tube, Right Rear Reel Motor Drain	
22	4113601	1	Tube, Return Manifold	
	339908	5	• O-Ring, -4 ORFS	
23	452004	2	Flat Washer, 1/4	See 31.1
24	3003110	2	Clamp, Double 5/8" Tube	
25	366811	2	Clamp, 3/8" Tube	
26	444708	2	Locknut, 1/4-20 Center	
27	473142	2	Cable Tie, 3/16 x 14"	

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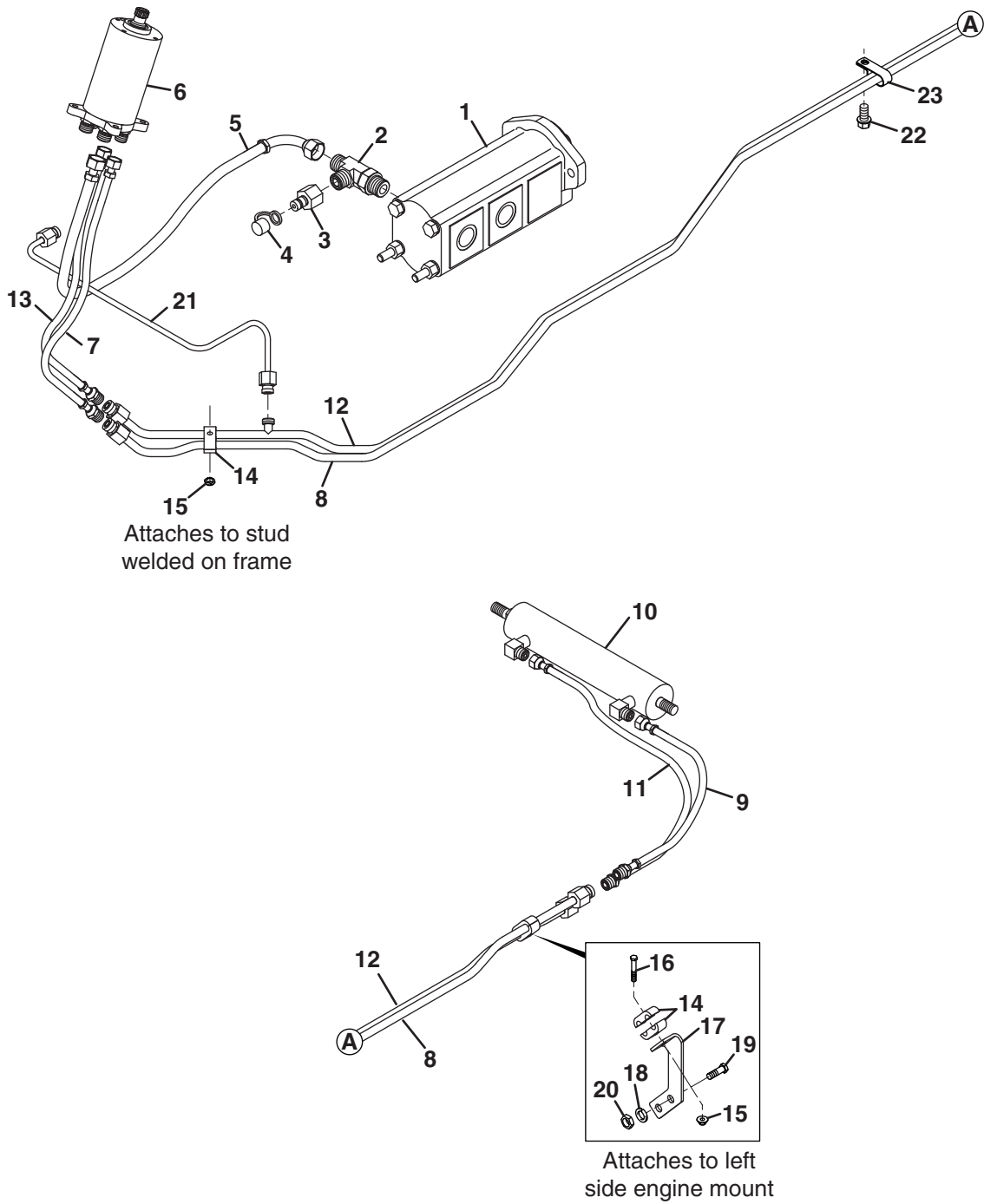
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4212981	1	Steering Valve	See 11.1
2	1003339	1	Hose, Steering Valve to Lift Valve	Steering Valve Port T, Lift Valve Port T
3	1003340	1	Hose, Steering Valve to Lift Valve	Steering Valve Port E, Lift Valve Port P
4	339985	2	Fitting, 8-10 Straight	
	339910	1	• O-Ring, -6 ORFS	
	339899	1	• O-Ring, -10 ORB	
5	4195081	1	Lift Valve	See 19.1
6	339979	6	Fitting, 6-6 Straight	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
7	3000953	6	Disk, 0.040" Orifice	
	339909	1	• O-Ring, -6 ORFS	
8	4240022	1	Hose, Lift Valve to Right Cylinder	Lift Valve Port 1, Cylinder Rod Port
9	4240182	1	Hose, Lift Valve to Center Cylinder	Lift Valve Port 2, Cylinder Rod Port
10	4240183	1	Hose, Lift Valve to Left Cylinder	Lift Valve Port 3, Cylinder Rod Port
11	340057	6	Fitting, 6-6 90°	
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
12	4193221	2	Cylinder, Lift	See 32.1
13	4193220	1	Cylinder, Lift	See 32.1
14	4240023	1	Hose, Right Cylinder to Lift Valve	Lift Valve Port 8, Cylinder Base Port
15	4240024	1	Hose, Center Cylinder to Lift Valve	Lift Valve Port 9, Cylinder Base Port
16	4240025	1	Hose, Left Cylinder to Lift Valve	Lift Valve Port 10, Cylinder Base Port
17	108138-04	2	Clamp, Double Tube	
18	409811	2	Screw, 5/16-18 x 5/8" Thread Cutting	
19	473142	1	Cable Tie, 3/16 x 14"	Right Cylinder Hoses
20	365466	1	Fitting, -6 ORB Diagnostic	
	339897	1	• O-Ring, -6 ORB	
21	363030	1	Cover, Dust	

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4195081	1	Lift Valve	See 19.1
2	337317	1	Fitting, -6 ORB One Way Restrictor	Lift Valve Port 4
3	353190	1	Plate, 0.026" Orifice	
4	339979	4	Fitting, 6-6 Straight	Lift Valve Port 6, Cylinders
	339909	1	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
5	4217161	1	Tube, Lift Valve to Rear Cylinder	
6	4212584	2	Hose, Tube to Rear Cylinder	
7	4237422	1	Disk, 0.055" Orifice	
	339909	1	• O-Ring, -6 ORFS	
8	340263	1	Tee, 6-6 Run	
	339909	2	• O-Ring, -6 ORFS	
	339897	1	• O-Ring, -6 ORB	
9	4120536	1	Hose, Cylinder Base Ports	
10	4193220	2	Cylinder, Rear Lift	See 32.1
11	3000953	2	Disk, 0.040" Orifice	
	339909	1	• O-Ring, -6 ORFS	
12	4241202	1	Hose, Cylinder Rod Ports	
13	340143	1	Tee, -6 ORFS Swivel Branch	
	339909	2	• O-Ring, -6 ORFS	
14	4217160	1	Tube, Rear Cylinder to Lift Valve	
15	339993	1	Fitting, 12-10 Straight	Lift Valve Rear Port T
	339912	1	• O-Ring, -12 ORFS	
	339899	1	• O-Ring, -10 ORB	
16	2812273	1	Tube, Lift Valve to Return Tube	
17	4217400	1	Tube, Return Filter	See 25.1
	339912	1	• O-Ring, -12 ORFS	
	339913	1	• O-Ring, -16 ORFS	
18	364221	1	Clamp, Double 3/8" Tube	See 31.1
19	3009272	1	Clamp, Double Hose	See 31.1
20	409811	1	Screw, 5/16-18 x 5/8 Thread Cutting	
21	339897	1	O-Ring, -6 ORB	
22	340005	1	Fitting, 6-6 Straight (Long)	

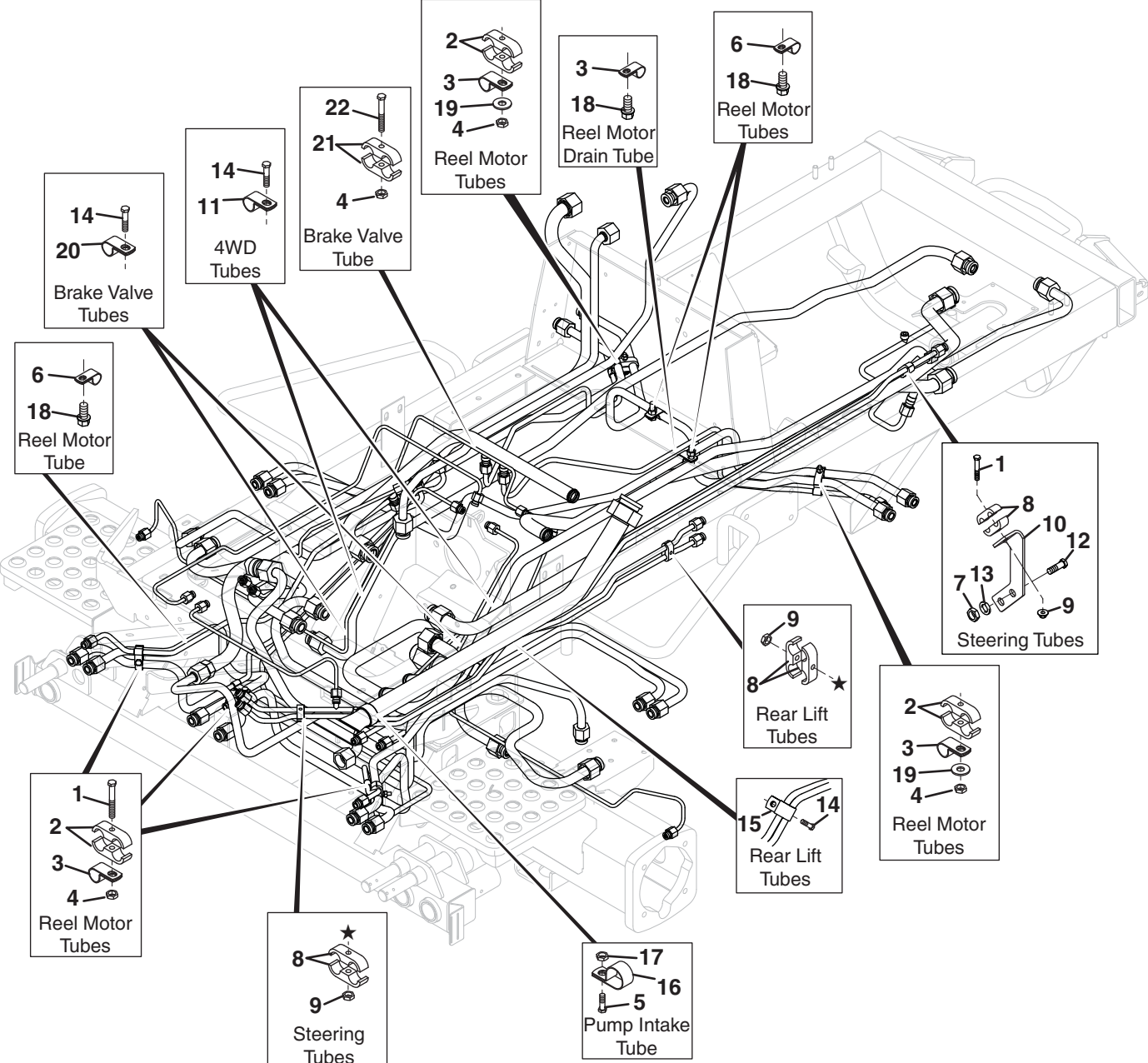
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1002154	1	Gear Pump	See 17.1
2	340274	1	Tee, 8-10-8 Straight Run	
	339910	2	• O-Ring, -8 ORFS	
	339898	1	• O-Ring, -10 ORB	
3	364945	1	Fitting, -8 ORFS Diagnostic	
4	363030	1	Dust Cover	Steering Valve Port P
5	1003334	1	Hose, Pump to Steering Valve	
6	4212981	1	Steering Valve	
	339908	2	• O-Ring, -4 ORFS	See 11.1
	339909	1	• O-Ring, -6 ORFS	
7	4215600	1	Hose, Steering Valve to Outside Tube	Steering Valve Port L
	339909	1	• O-Ring, -6 ORFS	
8	4215021	1	Tube, Outside (Left Turn) Steering	See 9.1 or 10.1
9	4215600	1	Hose, Outside Tube to Cylinder	
	339909	1	• O-Ring, -6 ORFS	
10	4137137	1	Cylinder, Steering	
	4137139	1	• Seal Kit	
	339908	2	• O-Ring, -4 ORFS	
11	4215601	1	Hose, Cylinder to Inside Hose	
	339909	1	• O-Ring, -6 ORFS	
12	4215022	1	Tube, Inside (Right Turn) Steering	
	339908	1	• O-Ring, -4 ORFS	
13	4215600	1	Hose, Inside Tube to Steering Valve	
	339909	1	• O-Ring, -6 ORFS	Brake Valve Port ST, See 24.1
14	364221	2	Clamp, Double Tube	
15	445770	2	Nut, 1/4-20 Nylon Insert Hex	
16	400118	1	Screw, 1/4-20 x 1-3/4" Hex Head	
17	4215103	1	Support, Clamp	
18	446142	2	Lockwasher, 3/8 Heavy	
19	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
20	443110	2	Nut, 3/8-16 Hex	
21	4215080	1	Tube, Steering Tube to Brake Valve	
22	409811	1	Screw, 5/16-18 x 5/8" THread Cutting	
23	3007558	1	Clamp, Double Tube	

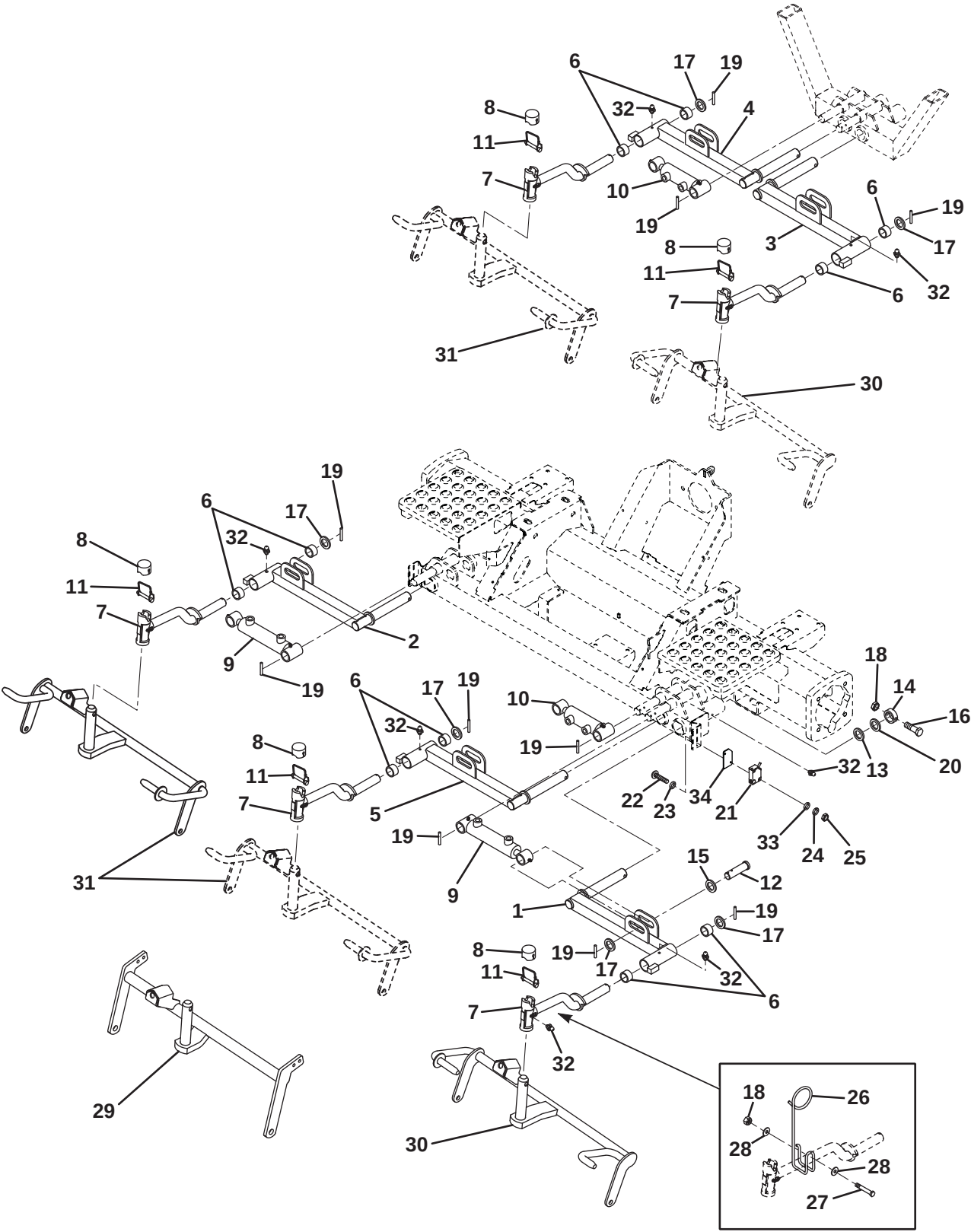
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31.1 Hydraulic Tube Clamps



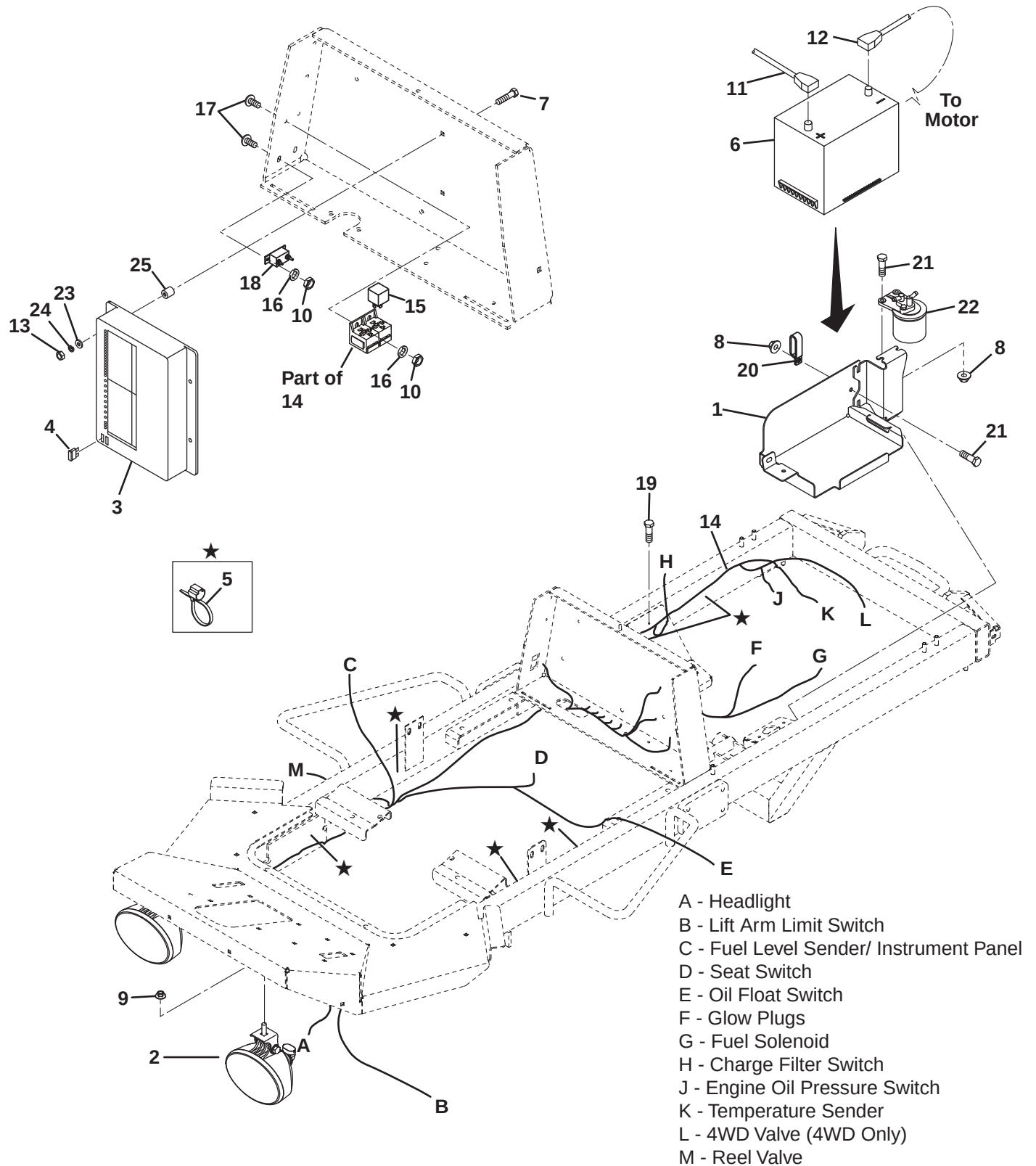
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	400118	4	Screw, 1/4-20 x 1"	See 26.1 and 27.1
2	3003110	5	Clamp, Double 5/8" Tube	
3	366811	6	Clamp, 3/8" Tube	
4	444708	6	Locknut, 1/4-20 Center	
5	400264	1	Screw, 3/8-16 x 1-1/4" Hex Head	See 26.1 and 27.1
6	361064	3	Clamp, 5/8" Tube	
7	443110	3	Nut, 3/8-16 Hex	
8	364221	3	Clamp, Double 3/8" Tube	
9	445770	3	Nut, 1/4-20 Nylon Insert Hex	See 30.1 and 29.1
10	4215103	1	Support, Clamp	
11	345671	2	Clamp, 3/4" Tube	
12	400258	2	Screw, 3/8-16 x 3/4" Hex Head	
13	446142	2	Lockwasher, 3/8 Heavy	See 30.1
14	409811	2	Screw, 5/16-18 x 5/8" Thread Cutting	
15	3009272	1	Clamp, Double 3/8" Hose	
16	364190	1	Clamp, 1-1/2" Diameter	
17	445796	1	Nut, 3/8-16 Spiralock Flange	See 29.1
18	409811	7	Screw, 5/16-18 x 5/8" Thread Cutting	
19	452004	2	Flat Washer, 1/4	
20	367028	3	Clamp, 3/8	
21	4244342	1	Clamp	See 20.1
22	400112	1	Screw, 1/4-20 x 1" Hex Head	

> Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4170623	1	Left Front Lift Arm	2 Per Lift Arm
2	4170624	1	Right Front Lift Arm	
3	4170626	1	Left Rear Lift Arm	
4	4170627	1	Right Rear Lift Arm	
5	4170625	1	Center Lift Arm	
6	3006539	10	• Bushing	
7	1002498	5	Yoke, Pivot	
8	3008432	5	Cap, Swivel Housing	
9	4193221	2	Lift Cylinder, Left and Right Front	
	4194460	1	• Seal Kit	
10	4193220	3	Lift Cylinder, Center and Rear	
	4194020	1	• Seal Kit	
11	3007798	5	Lock Pin	
12	3007989	5	Pin, Cylinder	
13	362824	5	Spacer, Lift Arm	
14	364248	5	Collar	
15	455004	10	Flat Washer, 1	
16	400272	5	Screw, 3/8-16 x 2-1/4" Hex Head	
17	2500477	5	Machinery Bushing	
18	444762	7	Locknut, 7/16-18 Center	
19	461409	15	Roll Pin, 3/16x x1-3/4"	
20	3009490	5	Wave Washer	REFERENCE SW-14 and SW-16, See 47.1
21	4125831	2	Switch, Proximity	
22	800440	4	Screw, #4-40 x 1" Truss Head	
23	308404	4	Flat Washer, #4	
24	446102	4	Lockwasher, #4	
25	444302	4	Nut, #4-40 Hex	
26	4244650	2	Support, Hose	
27	400276	2	Screw, 3/8-16 x 2-1/2" Hex Head	
28	358794	4	Flat Washer, 3/8	
29	1003361	5	Lift Yoke	
30	1003359	2	Lift Yoke, Left Side	
31	1003360	3	Lift Yoke, Right Side and Center	
32	471214	15	Grease Fitting	
33	453004	4	Washer, Flat	
34	4176860	2	Plate, Proximity Switch	

> Change from previous revision

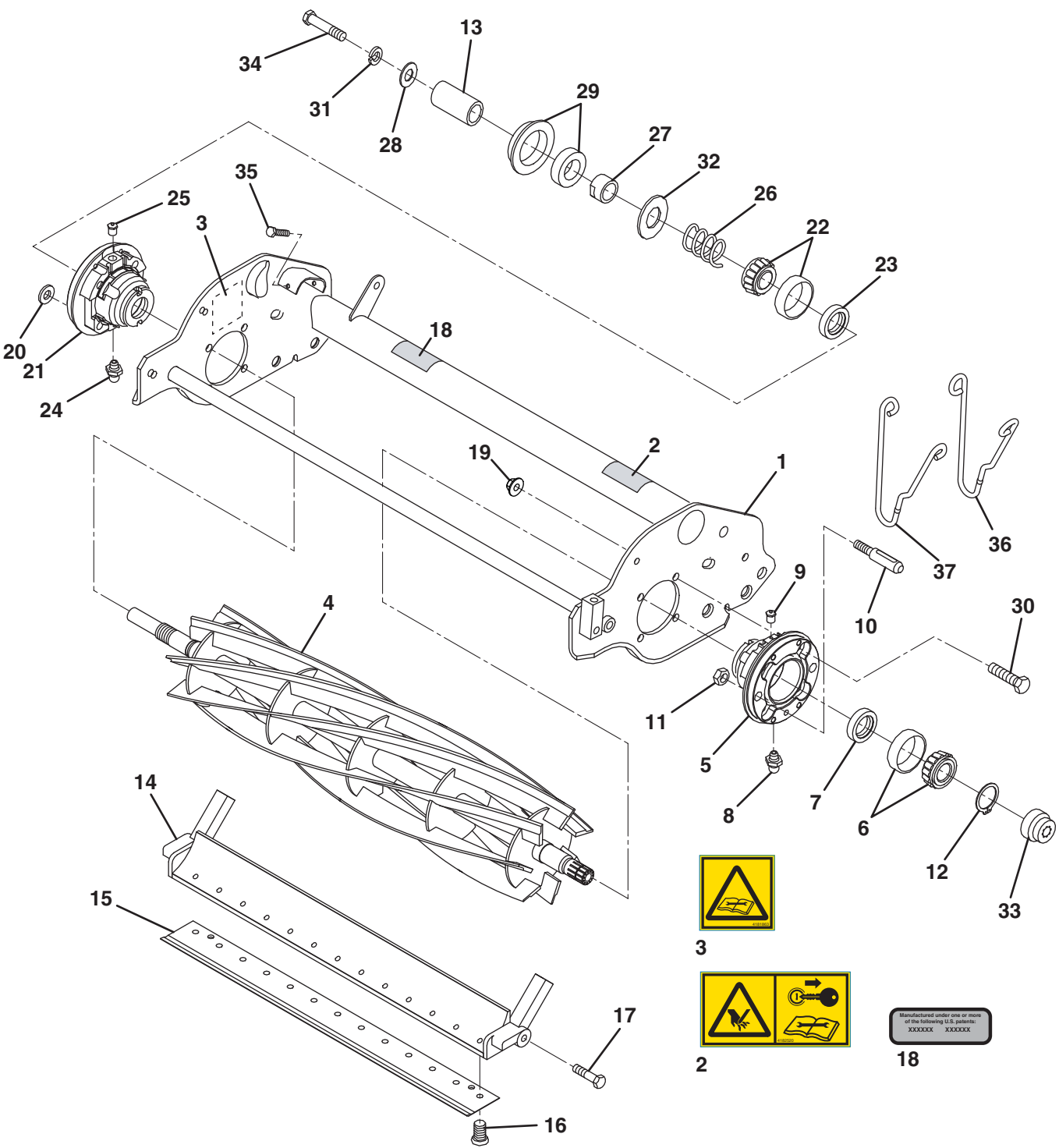


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	-----	1	Tray, Battery	See 7.1
2	4122840	2	Headlight	
	4123183	1	• Bulb	REFERENCE L-1 and L-2, See 47.1
3	4216680	1	Controller	REFERENCE U-6, See 47.1
4	5003282	2	• Fuse, 20 Amp	REFERENCE F-1 & F-2, See 47.1
5	4235060	7	Tie Strap, Push Nut Mount	Mounts to weld stud on frame.
6	N/S	1	Battery	REFERENCE B-1, See 47.1
7	402066	4	Screw, #8-32 x 1" Hex Head	
8	445795	5	Nut, 5/16-18 Spiralock Flange	
9	445796	2	Nut, 3/8-16 Spiralock Flange	
10	444310	4	Nut, #10-24 Hex	
11	3007777	1	Cable, Positive Battery	
12	2810213	1	Cable, Negative Battery	
13	444306	4	Nut, #8-32 Hex	
14	4217421	1	Body Wire Harness	
15	4193880	2	• Relay-SPDT With Diode	REFERENCE K-10 and K-11, See 47.1
16	446118	4	Lockwasher, #10	
17	403910	4	Screw, #10-24 x 1/2" Truss Head	
18	361439	1	Circuit Breaker, 12V 50A	REFERENCE CB-1, See 47.1
19	409804	3	Screw, #10-32 x 1/2" Thread Cutting	
20	3007558	1	Clamp, Double Tube	
21	400188	3	Screw, 5/16-18 x 1" Hex Head	
22	5001189	1	Fuel Filter Assembly	Included With Engine
	2500809	1	• Fuel Filter Element	
	2501023	1	• Filter Cover	
	2501024	1	• Filter Breather Plug	
	2501025	1	• O-Ring	
	2501026	1	• Form, Mark	
23	453004	4	Flat Washer, #8	
24	446112	4	Lockwasher, #8 Heavy	
25	4136366	4	Spacer, 3/8 x 5/16	

> Change from previous revision

34.1 Five Inch Reel Assembly
LF 550

Serial No. 67984 - All
Serial No. 67985 - All

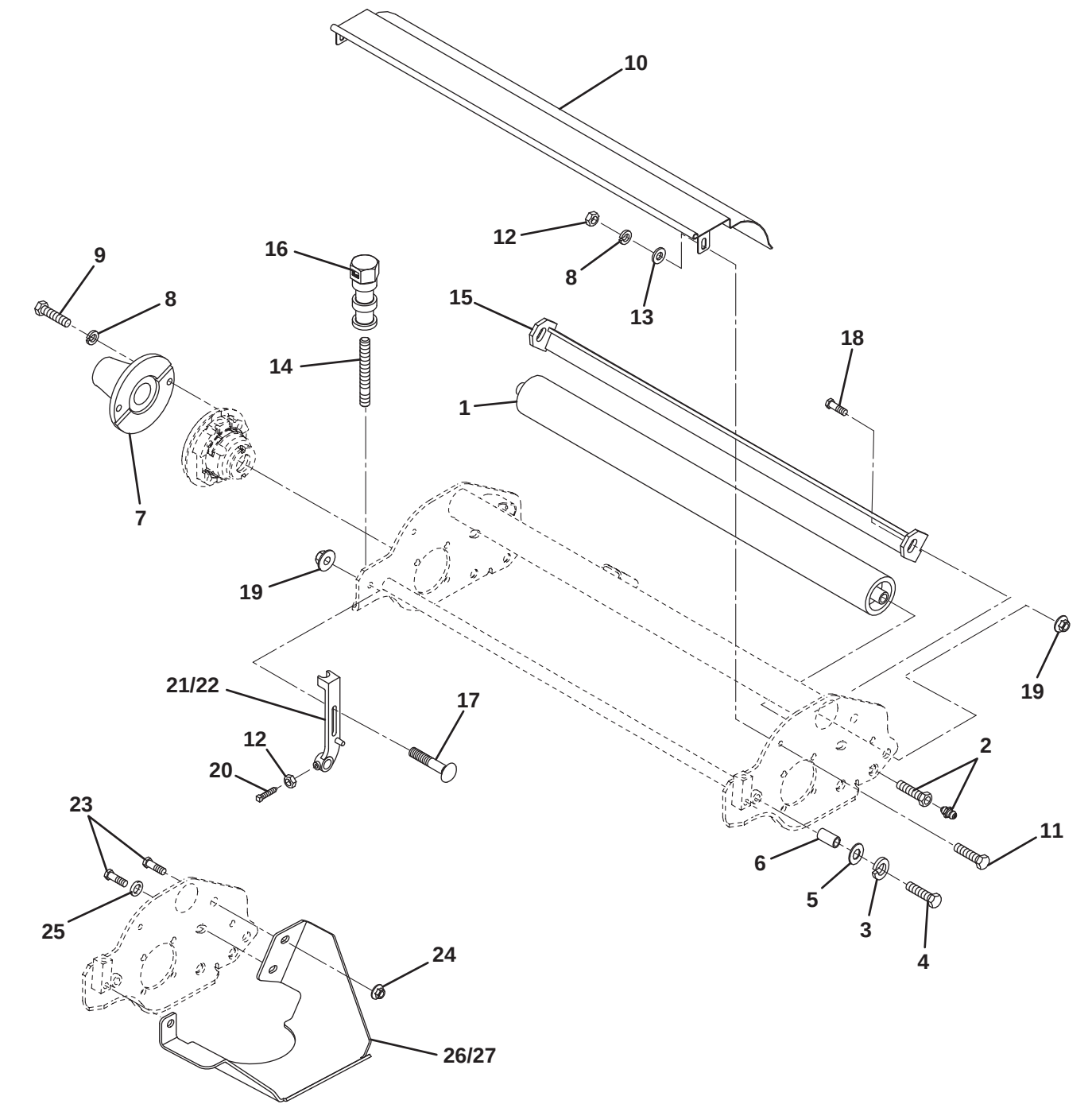


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003087	1	Frame, Reel	Used on 67984 Used on 67985
2	4182520	2	• Decal, Danger	
3	4181863	1	• Decal, Warning	
4	5003053	1	7 Blade Left Hand Reel	
4	5003054	1	7 Blade Right Hand Reel	
5	1004786	1	Bearing Housing	
6	500534	1	• Bearing, Cup and Cone	
7	336962	1	• Seal, Grease	
8	471214	1	• Grease Fitting	
9	471242	1	• Vent Fitting	
10	3010296	2	• Pin, Motor Mounting	Standard Optional
11	444708	2	• Locknut, 1/4-20 Center	
12	458013	1	Snap Ring	
13	367164	1	Spacer	
14	5000415	1	Bedknife Backing	
15	5003150	1	Bedknife, Low Profile Fairway	
15	503460	1	Bedknife, Heavy Section	
16	3009138	13	Screw, 1/4-20 x 1/2" Flat Head	
17	315298	2	Bolt, 7/16 x 3/4"	
18	4125770	1	Decal, Patent	
19	445795	8	Nut, 5/16-18 Spiralock Flange	
20	453009	4	Flat Washer, 5/16	
21	1000480	1	Bearing Housing	
	2000060	1	• Housing	
22	500534	1	• Bearing, Cup and Cone	
23	336962	1	• Seal, Grease	
24	471214	1	• Grease Fitting	
25	471240	1	• Vent Fitting	
26	5002151	1	Spring, Compression	
27	364900	1	Nut, Reel	
28	453011	1	Flat Washer, 3/8	
29	163892	1	Seal	
30	400192	8	Screw, 5/16-18 x 1-1/2" Hex Head	
31	446142	4	Lockwasher, 3/8 Heavy	
32	304745	1	Washer	
33	337370	1	Coupler, Reel Motor	
34	400294	1	Screw, 3/8-24 x 1" Hex Head	
35	412503	4	Screw, 3/8-16 x 1-1/4" Square Head	
36	2810165	1	Clip, Motor	
37	2810166	1	Clip, Motor	

> Change from previous revision

35.1 Five Inch Reel Assembly
LF 550

Serial No. 67984 - All
Serial No. 67985 - All

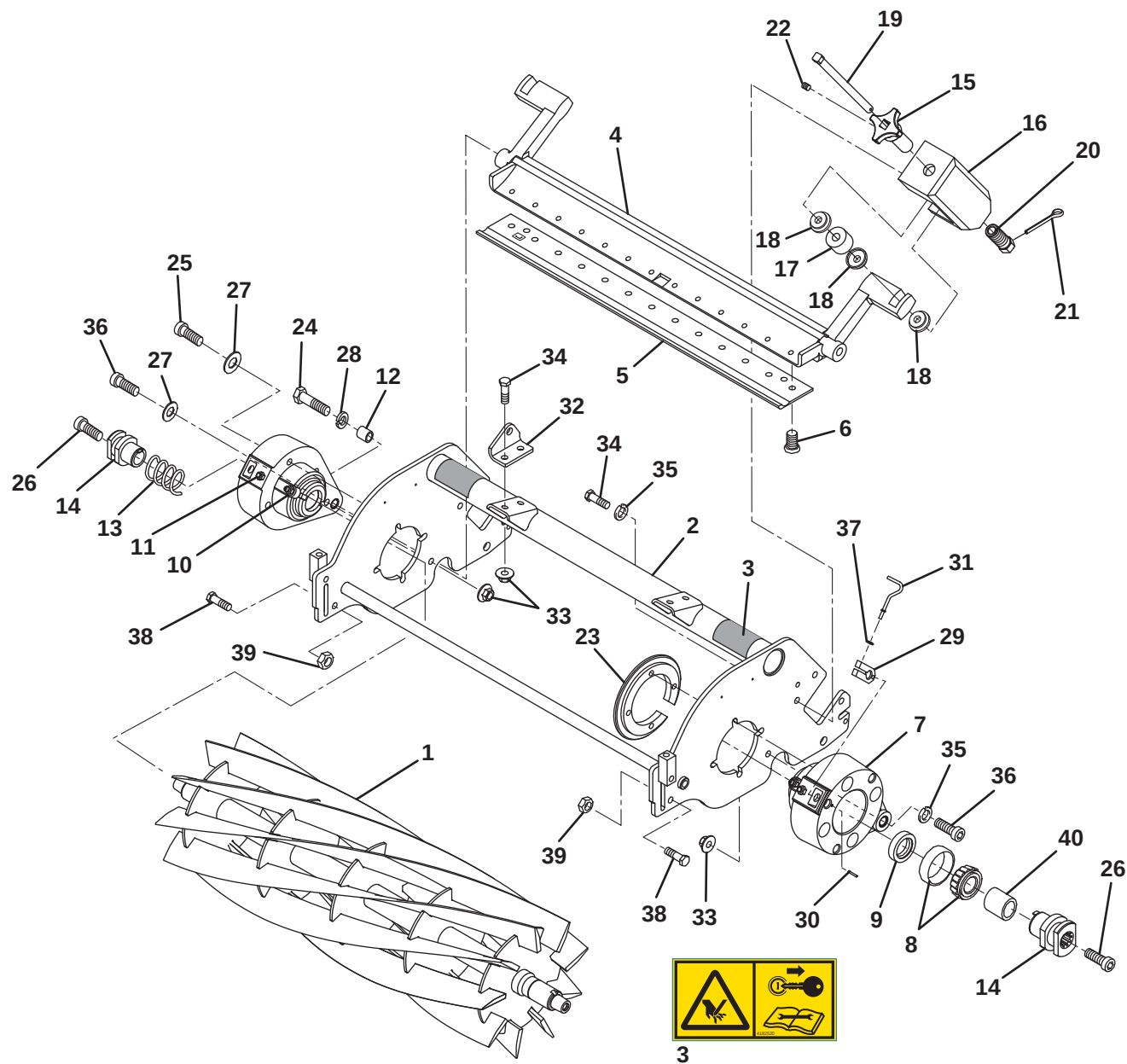


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	1000770	1	Rear Roller	See 39.1
2	1002224	2	Zerk Bolt	
3	446142	2	Lockwasher, 3/8 Heavy	
4	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
5	453011	2	Flat Washer, 3/8	
6	345510	2	Spacer	
7	2000065	1	Casting, Counterweight	
8	446130	4	Lockwasher, 1/4 Heavy	
9	400110	2	Screw, 1/4-20 x 7/8" Hex Head	
10	2810043	1	Shield, Reel	
11	403782	1	Screw, 1/4-20 x 3/4" Truss Head	
12	443102	4	Nut, 1/4-20 Hex	
13	453023	4	Flat Washer, 1/4	
14	343616	2	Stud	
15	338735	1	Scraper, Rear Roller	
16	3005692	2	Knob, Front Roller Adjusting	
17	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
18	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
19	445795	4	Locknut, 5/16-18 Hex	
20	352737	2	Screw, 1/4-20 x 7/8" Square Head	
21	3008438	1	Roller Bracket	
22	3008439	1	Roller Bracket	
23	403770	2	Screw, 5/16-18 x 3/4" Hex Flange	Front Wing Reels Only
24	445795	2	Nut, 5/16-18 Spiralock Flange	Front Wing Reels Only
25	452006	1	Flat Washer, 5/16	Front Wing Reels Only
26	3008199	1	Skid, Left	Left Front Reel Only
27	3008200	1	Skid, Right	Right Front Reel Only

> Change from previous revision

36.1 Seven Inch Reel Assembly
LF 570

Serial No. 67986 - All
Serial No. 67987 - All

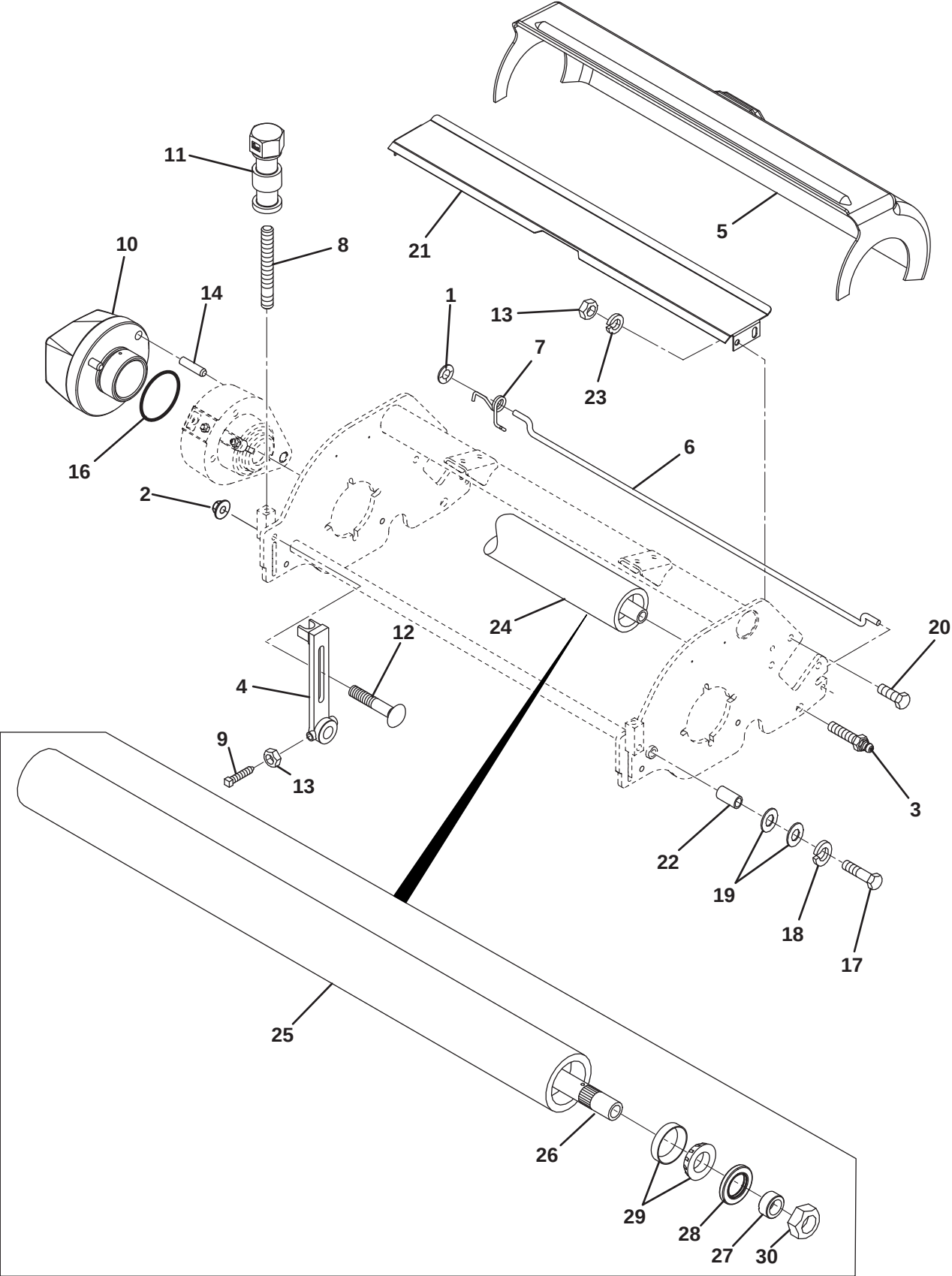


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2810472	1	Reel, 11 Blade	Used on 67986
1	2810471	1	Reel, 9 Blade	Used on 67987
2	5002609	1	Frame, 7" Reel	Standard
3	4182520	2	• Decal, Danger	
4	2811399	1	Bedknife Backing Assembly	
	455066	AR	• Shim	
5	503460	1	• Bedknife	
6	3009138	13	• Screw, 1/4-20 x 1/2" Flat Head	
7	1002811	2	Bearing Housing	
8	5002477	2	• Bearing Cup and Cone	
9	3006030	2	• Seal	
10	471214	2	• Grease Fitting	
11	471242	2	• Vent Fitting	
12	2500759	2	• Bushing	
13	3004734	1	Spring, Compression	
14	4166860	2	Coupler	
	1002532	2	Bedknife Adjuster	
15	2000125	1	• Knob	
16	3004795	1	• Housing	
17	3010470	1	• Spring, Urethane	
18	3009892	3	• Spacer, Cup	
19	3010472	1	• Rod	
20	3010471	1	• Bolt, Special	
21	461357	1	• Roll Pin, 1/8 x 5/8"	
22	422511	1	• Set Screw, 5/16-18 x 3/8"	
23	3005210	2	Retaining Ring	
24	365501	2	Bolt, Special	
25	434049	8	Screw, 5/16-18 x 2" Socket Head	
26	434003	2	Screw, 5/16-18 x 1" Socket Head	
27	362643	8	Spacer	
28	454017	2	Spring Washer	
29	4130092	2	Block, Clamp	
30	461419	2	Spring Pin, 1/8 x 3/8"	
31	3006028	2	Rod	
32	3008601	1	Bracket, Spring	
33	445795	2	Nut, 5/16-18 Spiralock Flange	
34	400184	2	Screw, 5/16-18 x 3/4" Hex Head	
35	446136	6	Lockwasher, 5/16	
36	434036	2	Screw, 5/16-18 x 1-1/4" Socket Head	
37	455066	2	Washer	
38	400182	2	Bolt, 5/16-18 x 5/8 " Hex Head	
39	443106	2	Nut, 5/16-18 Hex	
40	3004800	1	Spacer, Reel	

> Change from previous revision

37.1 Seven Inch Reel Assembly
LF 570

Serial No. 67986 - All
Serial No. 67987 - All

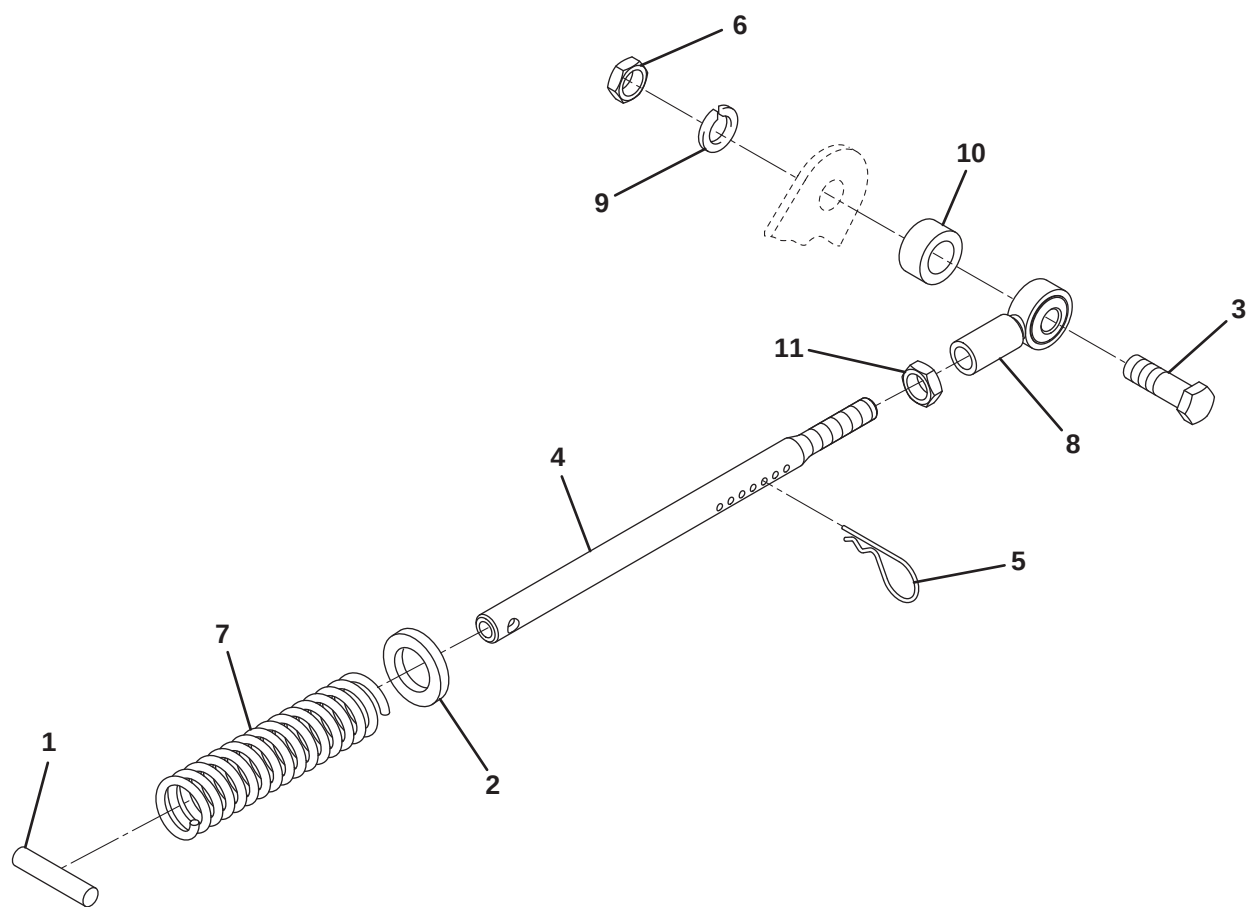


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	445525	2	Palnut, 1/4	
2	445795	2	Nut, 5/16-18 Spiralock Flange	
3	1002226	2	Zerk Bolt	
4	3004738	2	Front Roller Adjuster	
5	3005209	1	Shield	
6	3009280	1	Scraper, 22" Rear Roller	
7	3009281	1	Spring, 22" Rear Roller Torsion	
8	343616	2	Stud	
9	352737	2	Screw, 1/4-20 x 7/8" Square Head	
10	2000135	1	Counter Balance	
11	3005692	2	Knob, Roller Adjusting	
12	441674	2	Carriage Bolt, 5/16-18 x 1-3/4"	
13	443102	4	Nut, 1/4-20 Hex	
14	3006022	2	Pin	
15	446136	2	Lockwasher, 3/16 Heavy	
16	3006021	1	O-Ring	
17	400264	2	Screw, 3/8-16 x 1-1/4" Hex Head	
18	446142	2	Lockwasher, 3/8 Heavy	
19	453011	4	Flat Washer, 3/8	
20	400108	2	Screw, 1/4-20 x 3/4" Hex Head	
21	3006248	1	Deflector	
22	3006290	2	Bushing	
23	453023	2	Flat Washer, 1/4	
24	1003728	1	Rear Roller, 22"	
25	1003727	1	• Tube, 22" Roller	
26	3008027	1	• Shaft, 22" Roller	
27	3005156	2	• Sleeve, Wear	
28	3004882	2	• Seal, Grease	
29	500534	2	• Bearing, Cup and Cone	
30	367029	2	• Locknut, 3/4-16 Stover	

> Change from previous revision

38.1 Down Pressure Spring

Serial No. All

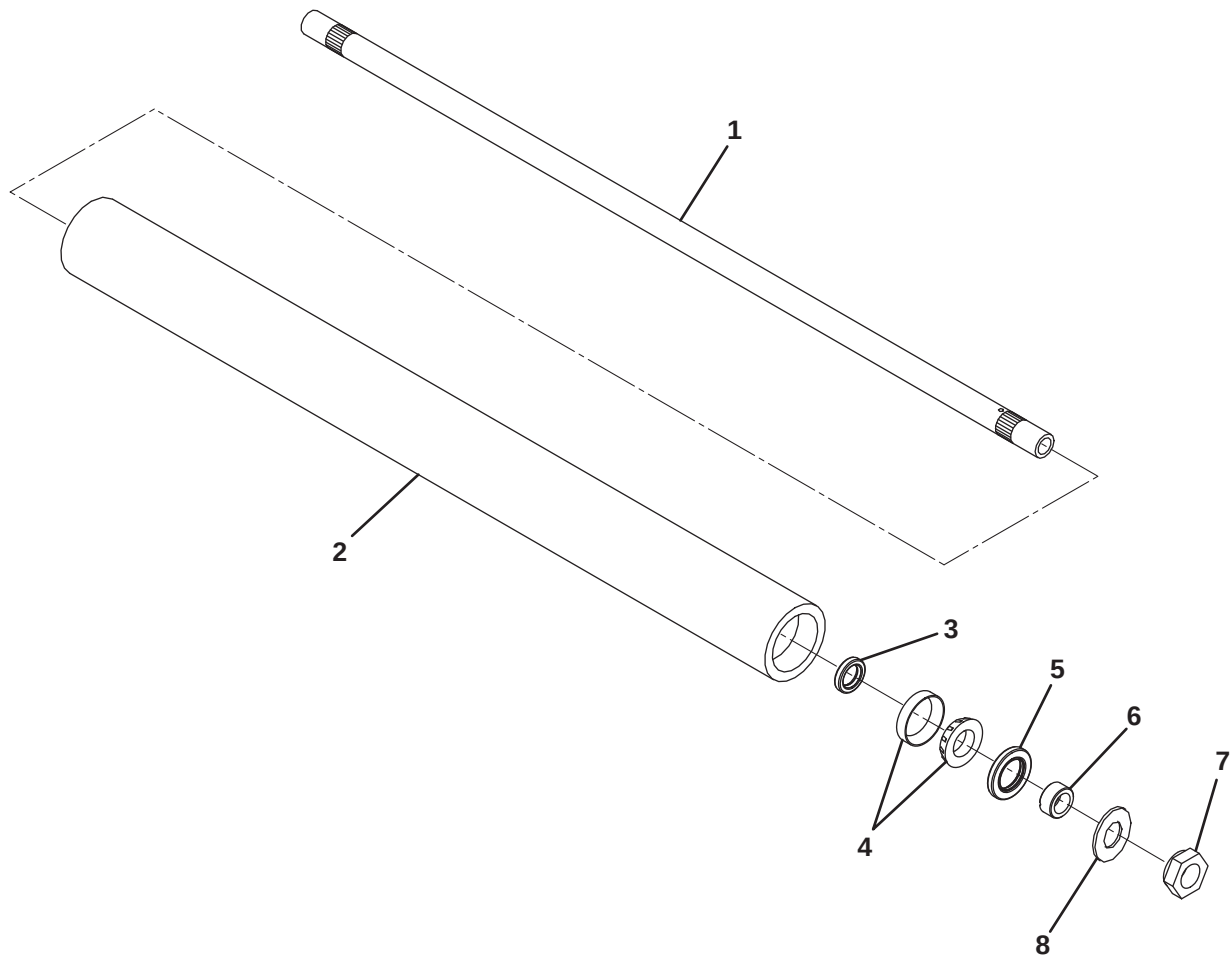


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	461397	1	Roll Pin, 1/4 x 1-1/4"	
2	453017	1	Flat Washer, 1/2	
3	400268	1	Screw, 3/8-16 x 1-3/4" Hex Head	
4	3008593	1	Tube, Down Pressure	
5	460312	1	Hairpin	
6	443110	1	Nut, 3/8-16 Hex	
7	311870	1	Spring, Compression	
8	366974	1	Rod End	
9	446142	1	Lockwasher, 3/8 Heavy	
10	352435	1	Spacer	
11	443812	1	Nut, 3/8-24 Hex	

> Change from previous revision

39.1 Rear Roller

Part Number 1000770

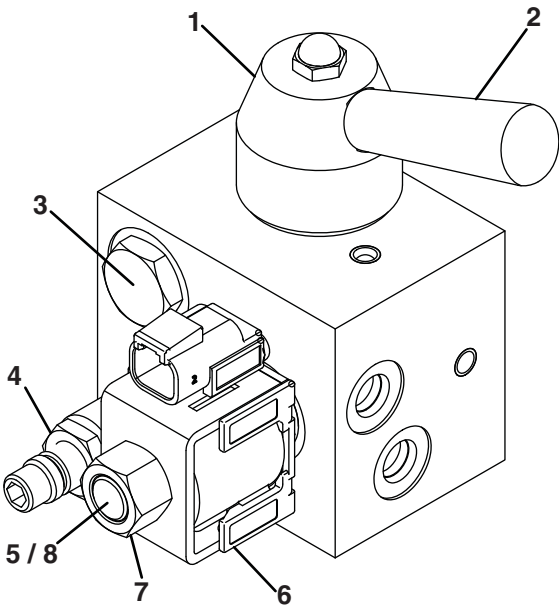


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3001654	1	Shaft, Roller	
2	3001655	1	Tube, Roller	
3	3001656	2	Seal, Grease	
4	5000625	2	Bearing, Cup and Cone	
5	3000983	2	Seal, Grease	
6	3001762	2	Sleeve, Wear	
7	445801	2	Nut, 5/8-18 Hex Jam Lock	
8	3000698	2	Washer	

> Change from previous revision

40.1 Brake Valve
Part Number 4211880

Serial No. All

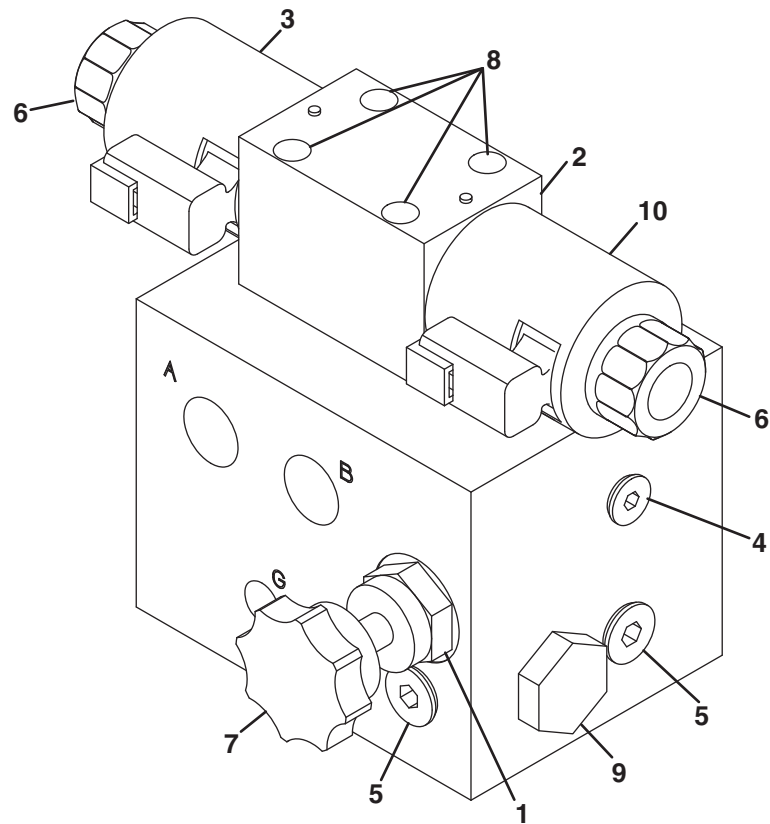


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4216690	1	Direction Control Valve, Manual	Set to 350 psi
	4219540	1	• Seal Kit	
2	4237106	1	• Handle Kit	
3	4216691	1	Check Valve	
	4219420	1	• Seal Kit	
4	4216692	1	Relief Valve	
	4219420	1	• Seal Kit	
5	4216693	1	Solenoid Valve	
	4235361	1	• Seal Kit	
6	4237103	1	• Coil	
7	4237104	1	• Nut, Coil	
8	4237105	1	• Actuator	

> Change from previous revision

41.1 Reel Valve

Part Number 4195041

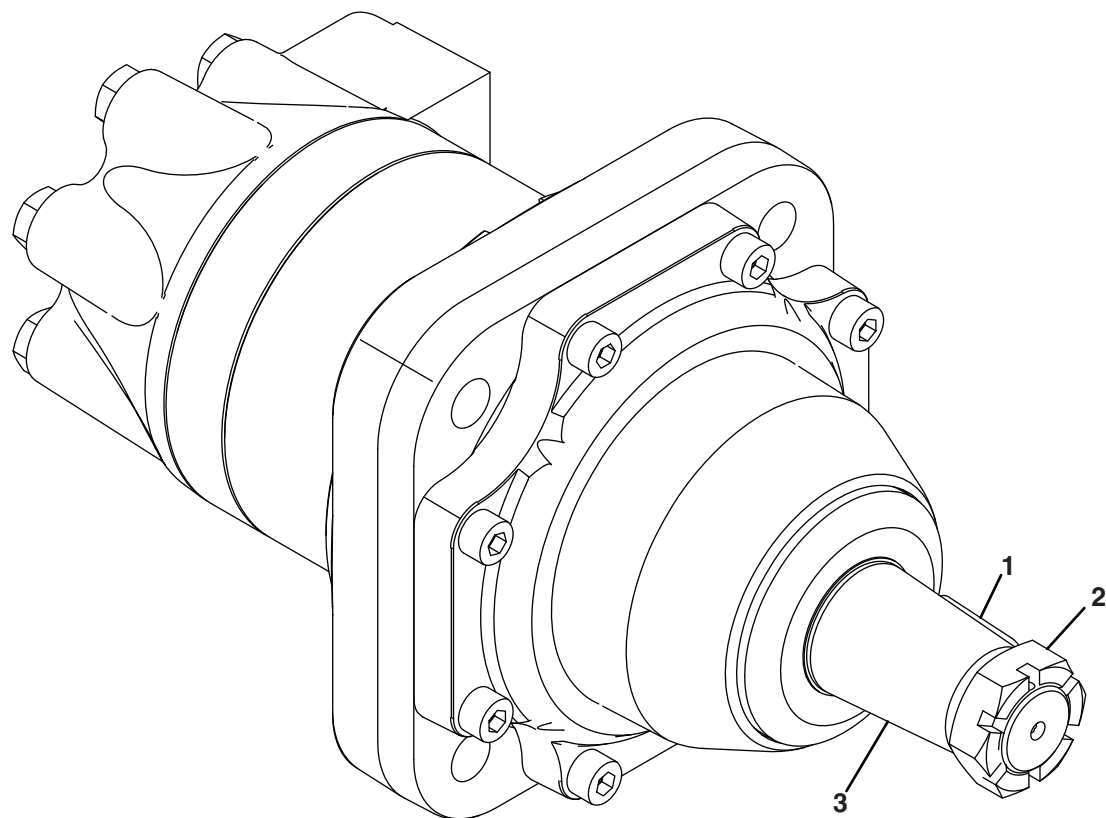


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003080	1	Flow Control	REFERENCE K-3 and K-4, See 47.1
	5003579	1	• Flow Control Seal Kit	
2	4136815	1	Solenoid Valve	
	339909	4	• O-Ring	
3	4135552	1	Coil	
4	5002157	3	Port Plug	
5	5001065	3	Port Plug	
6	4136814	2	Nut, Coil, with "O"-Ring	
7	4105980	1	Knob, Flow Control	
8	4143527	4	Bolt, D03 Service Short	
9	NS	1	Cavity Plug	REFERENCE K-7 and K-8, See 47.1
	5003579	1	• Seal Kit	
10	4200060	1	Coil	

> Change from previous revision

42.1 Front Wheel Motor
Part Number 4209440

Serial No. All

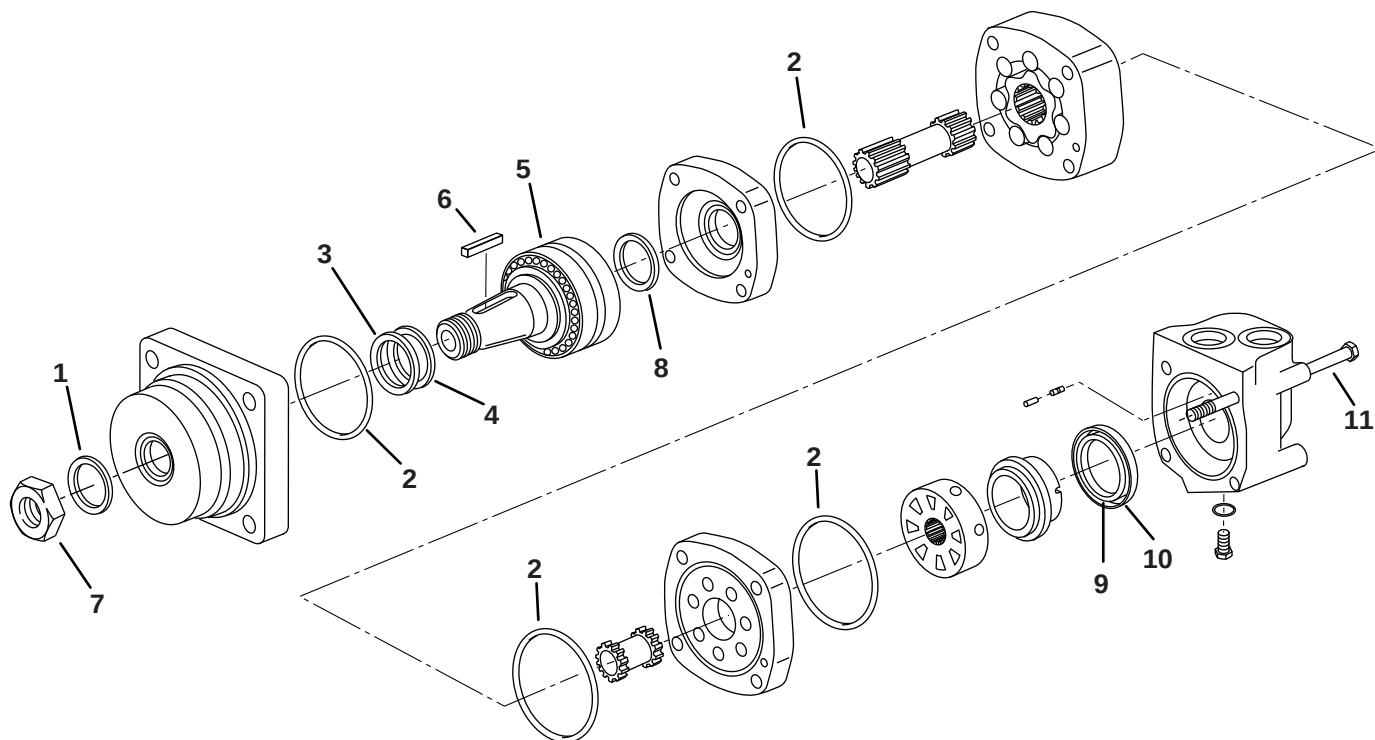


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4222840	1	Parallel Key	Not Shown
2	4222841	1	Nut, 1-20 Slotted Hex	
3	4222842	1	Shaft Module	
4	4222843	1	Brake Module	
	4222844	1	Seal Kit	

> Change from previous revision

43.1 Rear Wheel Motor

Part Number 4178560



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1		1	Seal Exclusion	
2		4	Seal, 3" I.D.	
3		1	Back Up Ring	
4		1	Shaft Seal	
5	5003384	1	Shaft and Bearing Kit	
6	554780	1	Key	
7	554779	1	Hex Nut	
8		1	Shaft Face Seal	
9		1	Inner Face Seal	
10		1	Outer Face Seal	
11	556450	4	Bolt	
	4178561	1	Rear Seal Kit	
	4178562	1	Front Seal Kit	

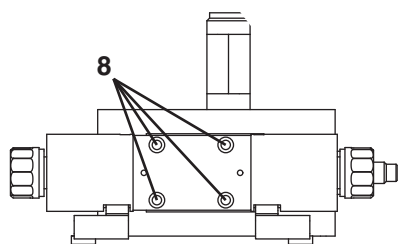
> Change from previous revision

LF 550

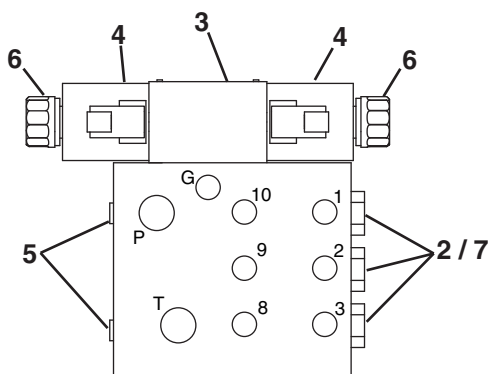
44.1 Lift Valve

Part Number 4195081

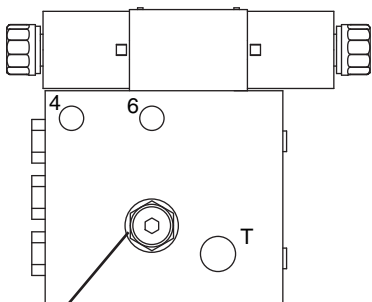
Serial No. All



Top



Front



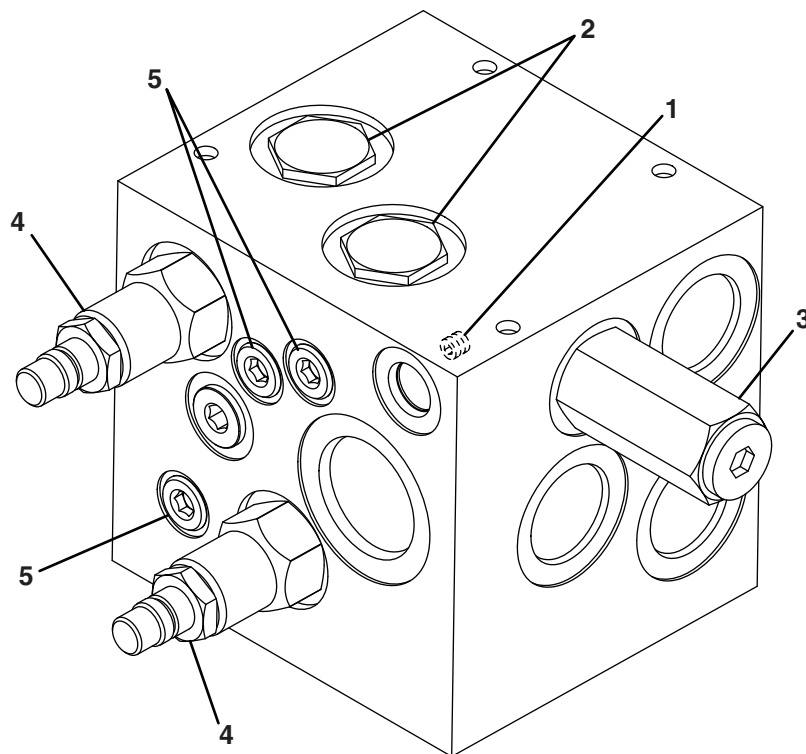
Rear

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	5003144	1	Relief Valve	REFERENCE K-5 and K-6, See 47.1
	5003579	1	• Relief Valve Seal Kit	
2	5001355	3	Pilot Operated Check Valve	
	5003578	1	• Check Valve Seal Kit	
3	4136815	1	Solenoid Valve	
	339909	4	• O-Ring	
4	4135552	2	Coil	
5	5002157	4	Plug, Port	
6	4136814	2	Nut, Coil, with "O"-Ring	
7	4154700	3	Pilot Piston	
8	4143527	4	Bolt, D03 Service Short	

> Change from previous revision

45.1 4WD Valve

Part Number 4209880



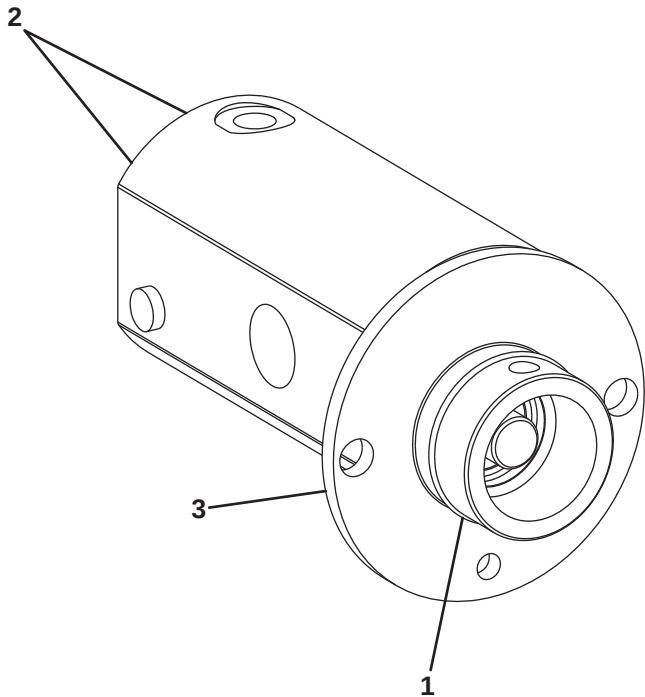
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4216685	1	Plug, Orifice	
2	4216681	2	Check Valve	
	4219520	1	• Seal Kit	
3	4216686	1	Sequence Valve	
	4219540	1	• Seal Kit	
4	4216689	2	Relief Valve	
	4219520	1	• Seal Kit	
5	4216684	6	Plug, -6 Tapered	

> Change from previous revision

43.1 Reel Motor

Serial No. All

Part Number 2822503 (Five Inch Reel)

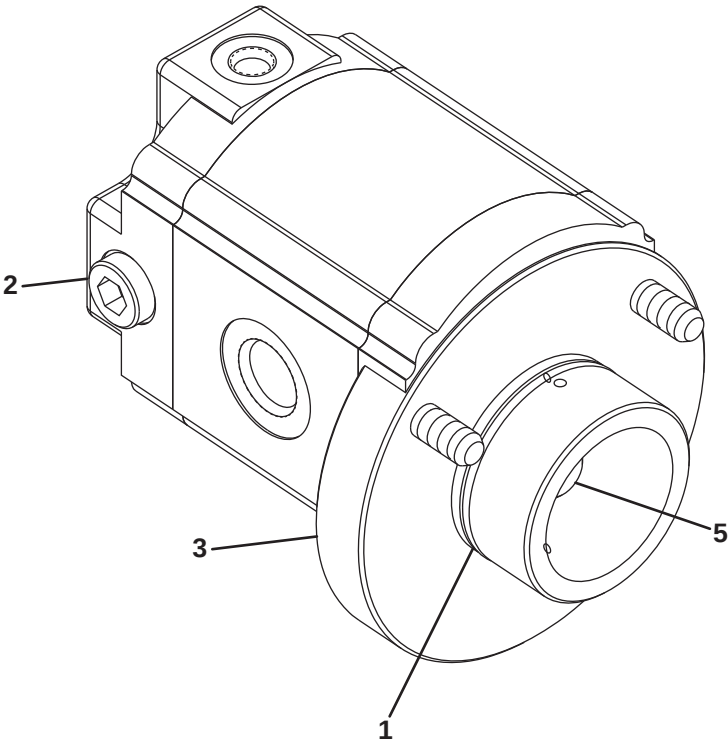


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	845279	1	O-Ring	
2	5003140	2	Relief Valve	
3	5003688	1	Face Plate	
	5003589	1	Seal Kit	

> Change from previous revision

44.1 Reel Motor

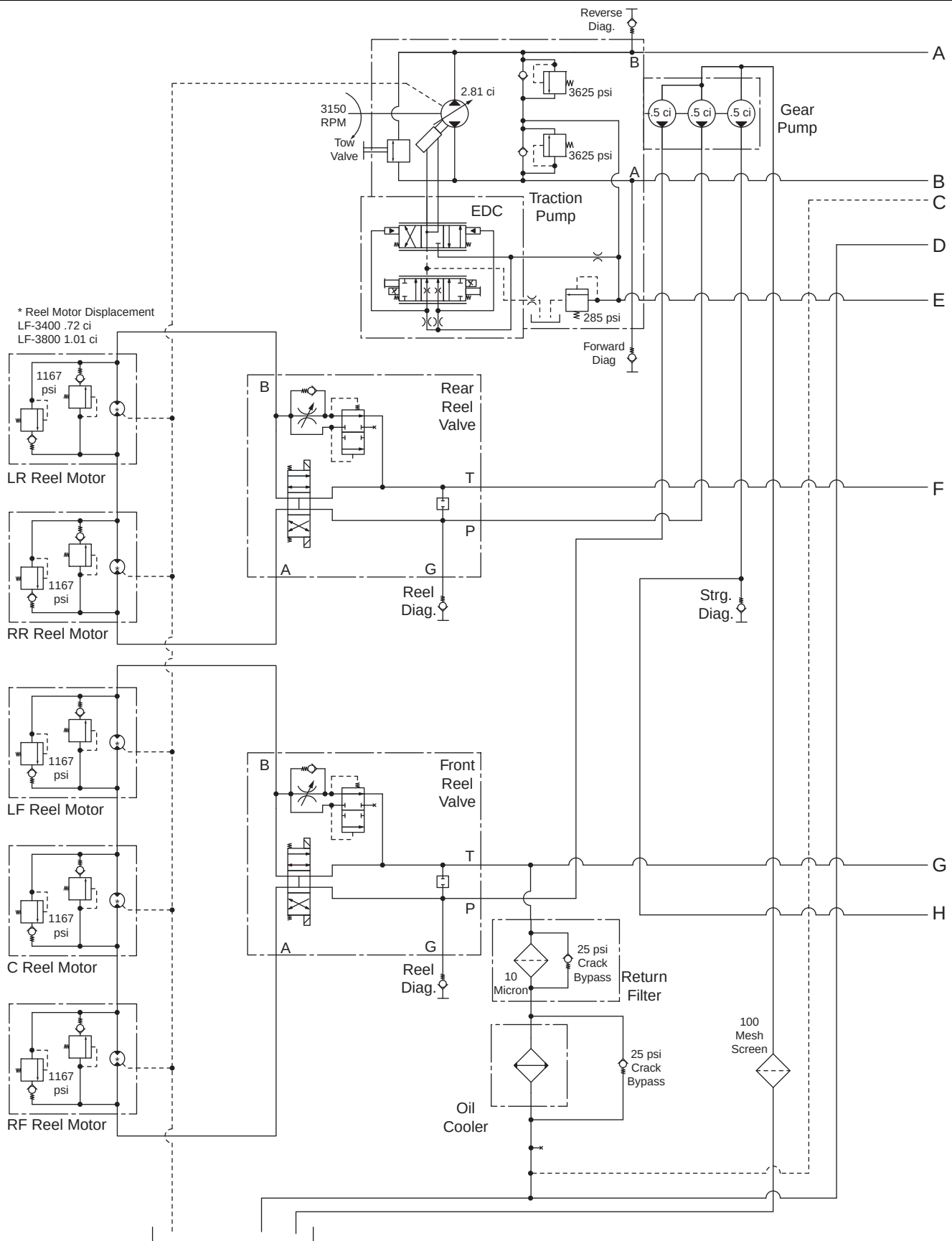
Part Number 1002620 (Seven Inch Reel)

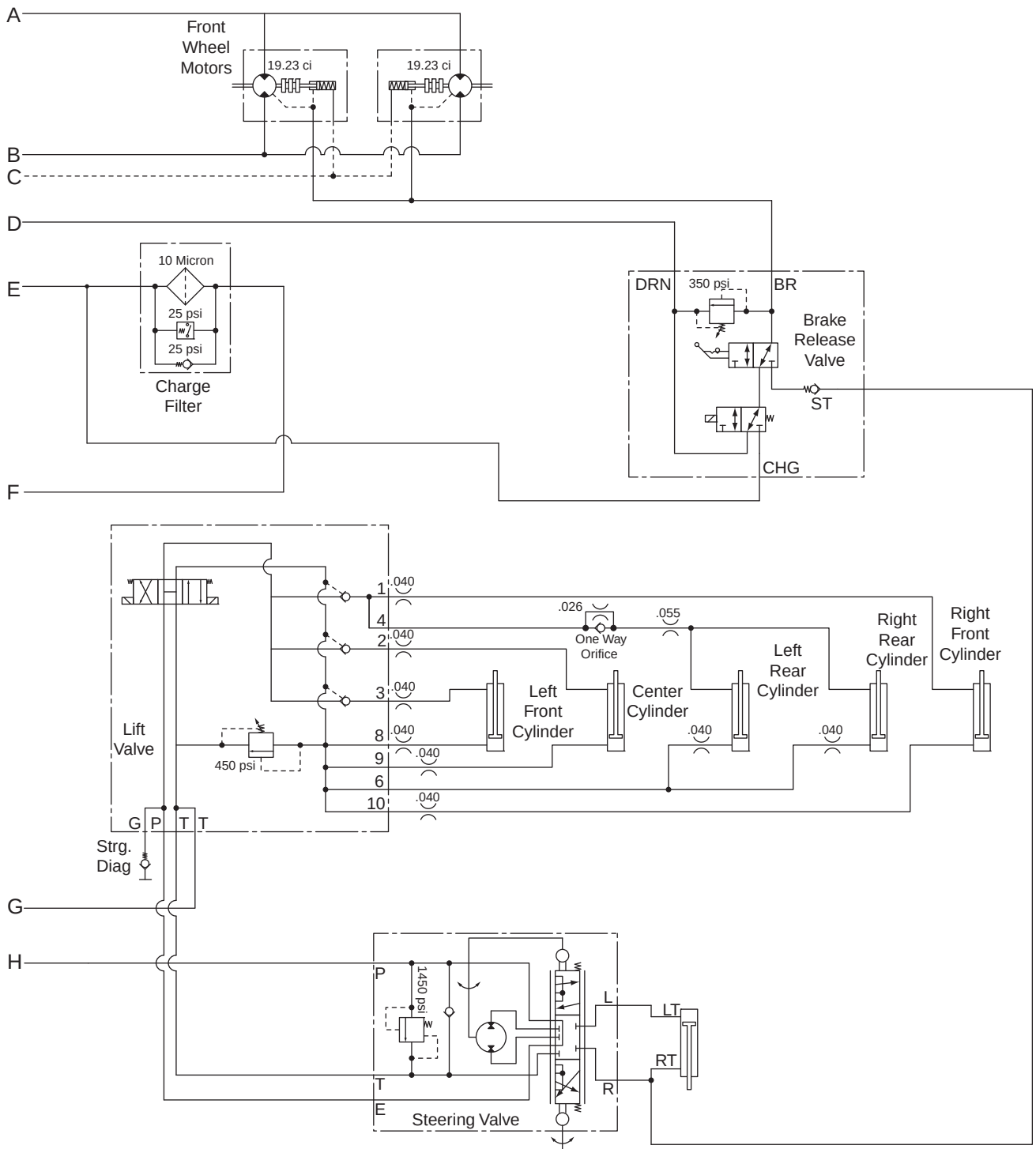


Used on LF 3800 Models.

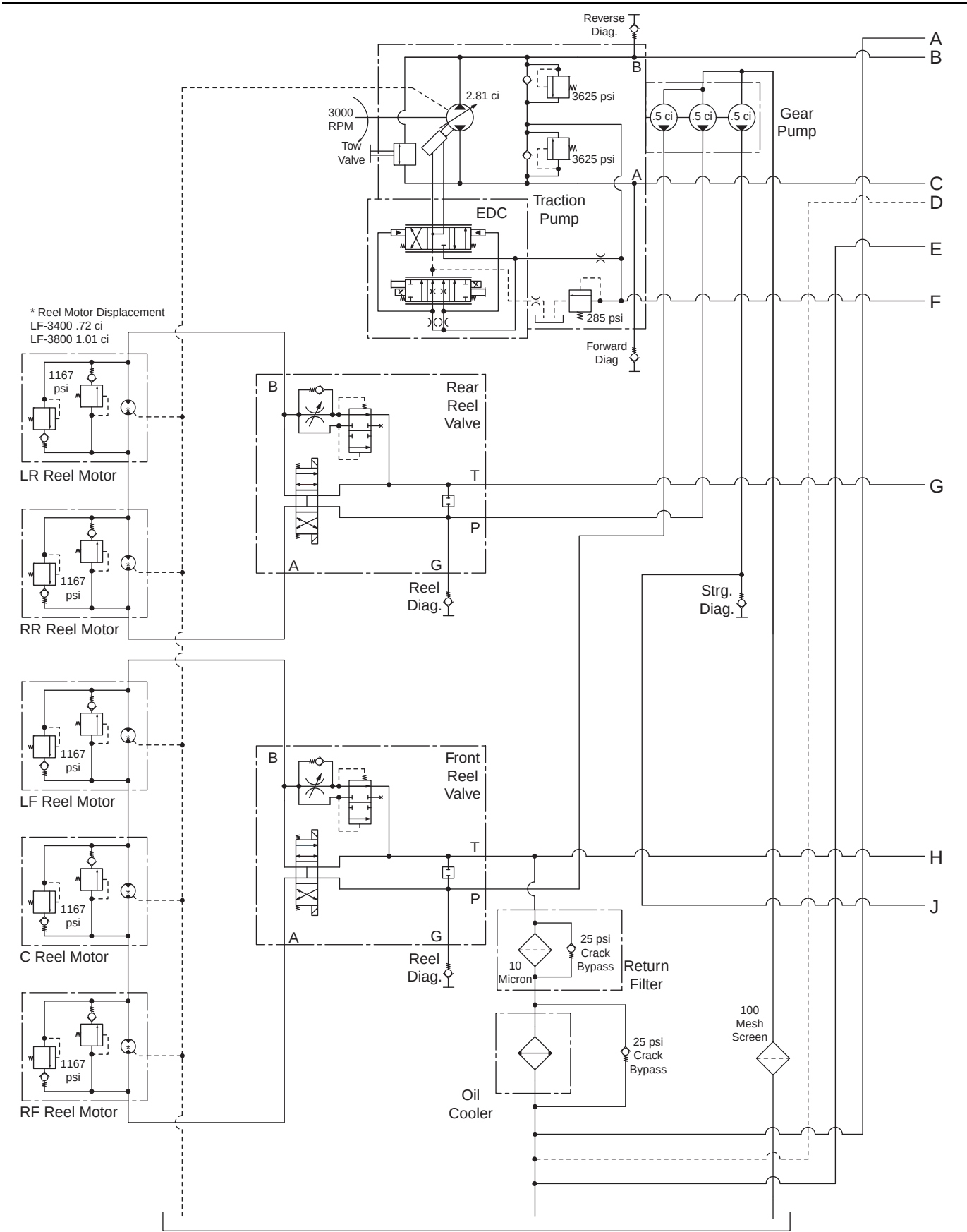
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	3006021	1	O-Ring	Not Shown
2	5003140	2	Relief Valve	
3	5003485	1	Face Plate	
4	5003031	1	Seal Kit	
5	4102440	1	Shaft, Output	

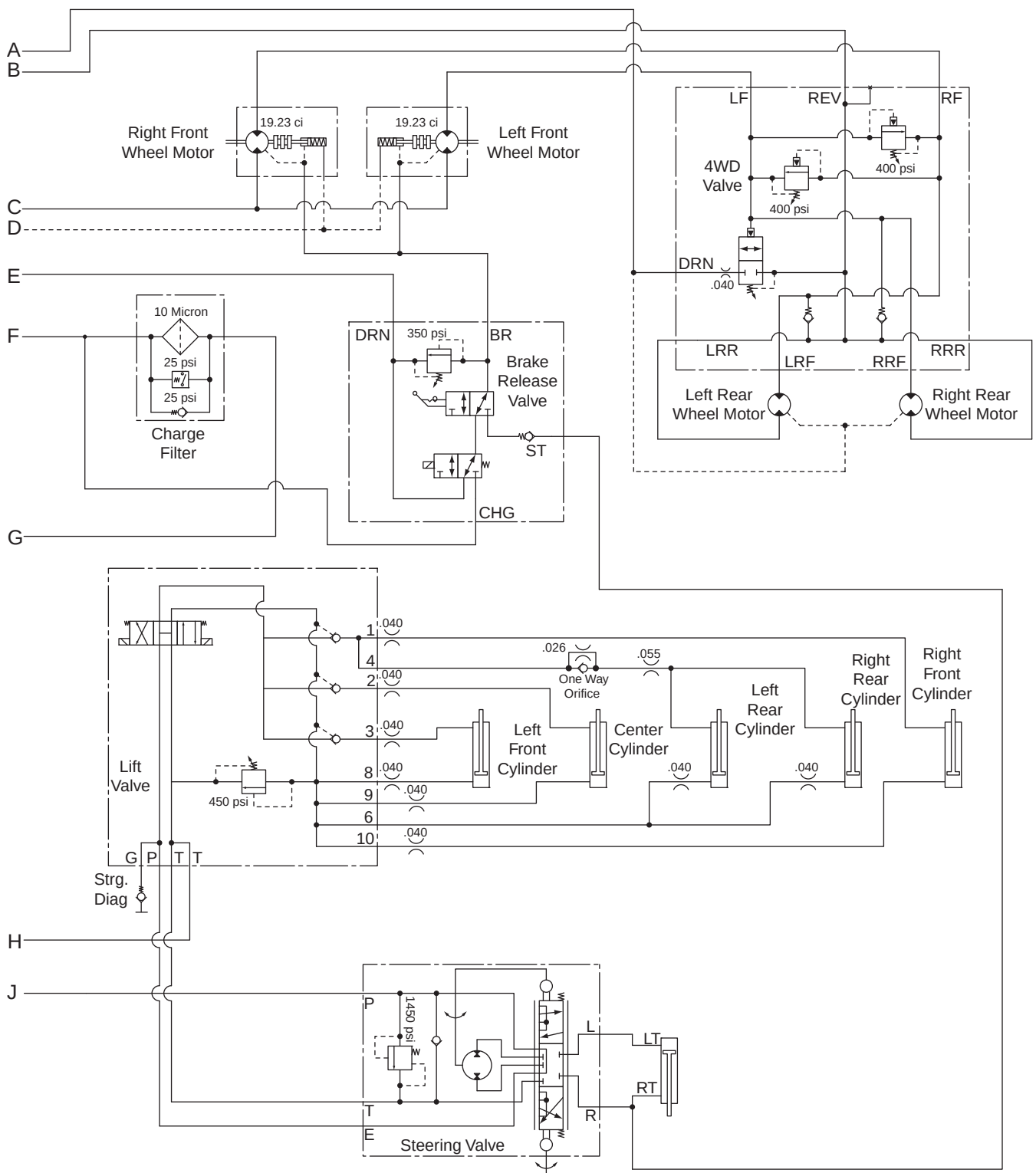
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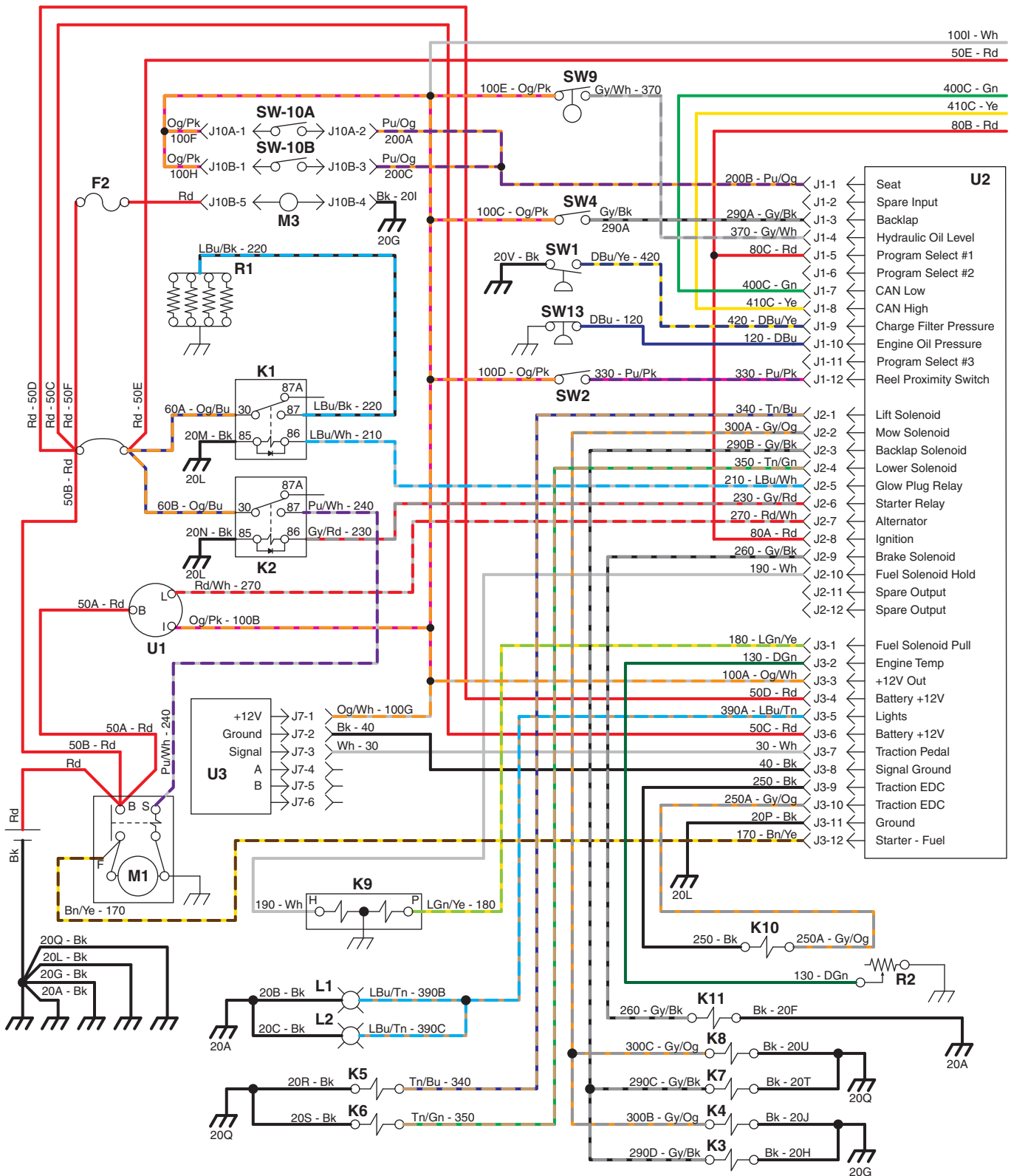


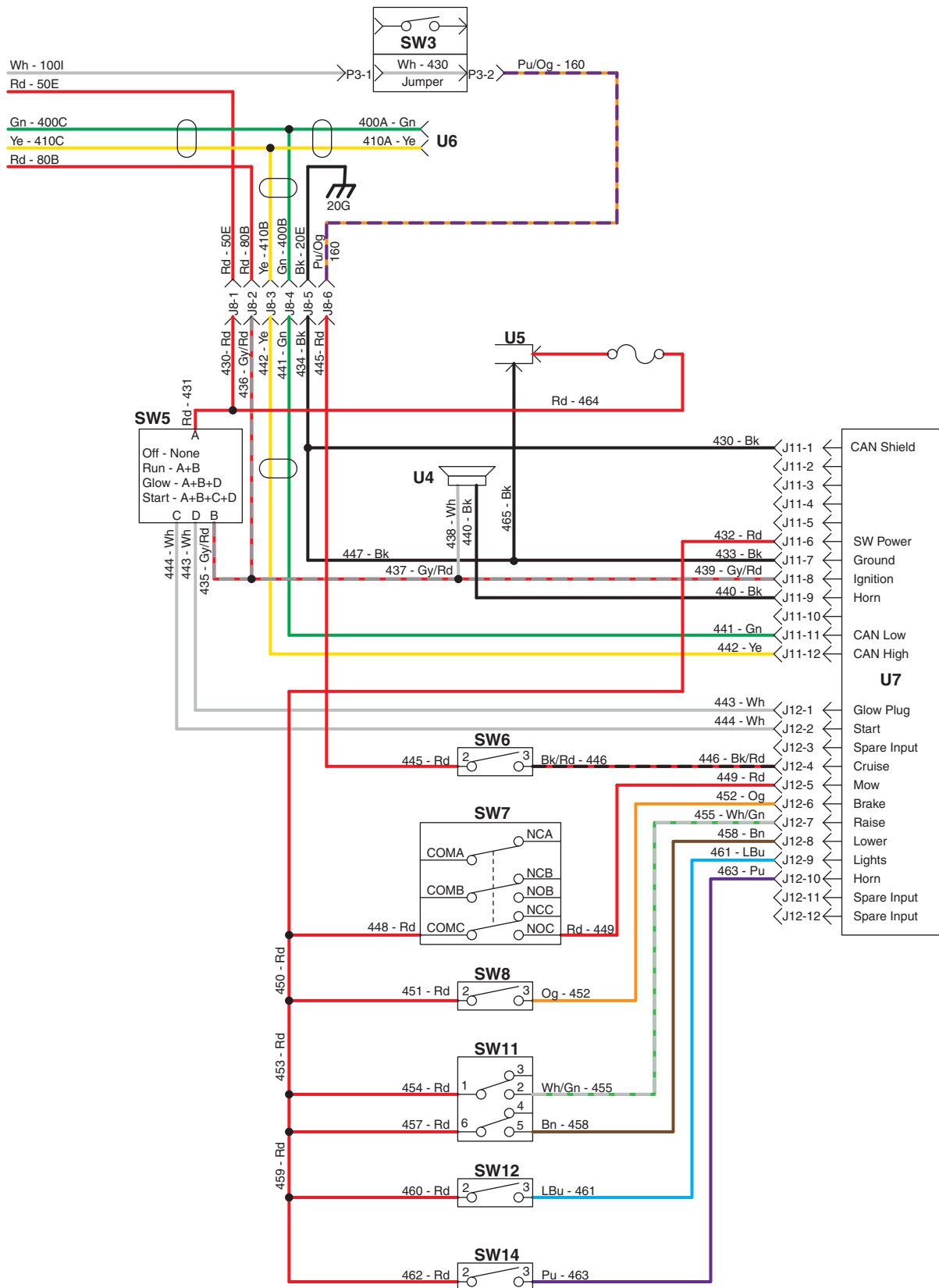


46.1 4WD Hydraulic Schematic





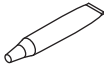
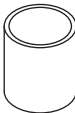
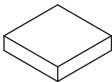




LF 3400 / 3800

Item	Reference Illustration	Part Number	Description	Serial Numbers/Notes
B1	See 33.1	N/S	Battery	
CB1	See 33.1	361439	50 Amp Circuit Breaker (Alternator)	
F1	See 5.1	836892	10 Amp Fuse (Power Outlet)	
F2	Not Shown	836892	10 Amp Fuse (Deluxe Seat)	
K1	See 33.1	4193880	Glow Plug Relay	
K2	See 33.1	4193880	Starter Relay	
K3	See 41.1	4200060	Rear Backlap Solenoid Coil	Included in 4195041
K4	See 41.1	4135552	Rear Mow Solenoid Coil	Included in 4195041
K5	See 44.1	4135552	Lift Solenoid Coil	Included in 4195081
K6	See 44.1	4135552	Lower Solenoid Coil	Included in 4195081
K7	See 41.1	4200060	Front Backlap Solenoid Coil	Included in 4195041
K8	See 41.1	4135552	Front Mow Solenoid Coil	Included in 4195041
K9	Not Shown	2811021	Fuel Solenoid	Included in Engine
K10	Not Shown	4224140	EDC Solenoid	Included in 4209500
K11	See 40.1	4237103	Brake Solenoid Coil	Included in 4211880
L1	See 33.1	4123183	Left Headlight	
L2	See 33.1	4123183	Right Headlight	
M1	Not Shown	557888	Starter Motor	Included in Engine
M2	Not Shown		Deluxe Seat Motor	Included in Optional Kit
R1	Not Shown		Glow Plugs	Included in Engine
R2	See 16.1	364501	Temperature Sender	
SW1	See 22.1	556419	Hydraulic Filter Pressure Switch	
SW2	See 32.1	4125831	Right Reel Level Proximity Switch	
SW3	Not Shown		Cruise Disable Switch	Included in Optional Kit
SW4	See 13.1	3006434	Back Lap Switch	
SW5	See 4.1	4128888	Ignition Switch	
SW6	See 4.1	4222300	Cruise Control Switch	Included in Optional Kit
SW7	See 4.1	4174684	Reel Switch	
SW8	See 4.1	4130132	Brake Switch	
SW9	See 18.1	3001279	Hydraulic Oil Level Switch	
SW10A	See 3.1	4210500	Seat Switch (Standard Seat)	
SW10B	Not Shown		Seat Switch (Deluxe Seat)	Included in Optional Kit
SW11	See 4.1	1004290	Joystick	
SW12	See 4.1	4130132	Light Switch	
SW13	Not Shown	554018	Engine Oil Pressure Switch	Included in Engine
SW14	See 4.1	4130133	Horn Switch	
U1	Not Shown	N/S	Alternator	Included in Engine
U2	See 33.1	4216680	Controller	
U3	See 6.1	4218260	Traction Pedal	
U4	See 4.1	366670	Horn	
U5	See 5.1	843942	12 Volt Power Outlet	
U6	Not Shown		Diagnostic Connector	Part of Main Harness
U7	See 4.1	4216682	LDU	

Fluids and Compounds

Hydraulic Fluid*		
5001405	Two 2-1/2 Gallon Container of ISO VG68 Oil	
5001404	One 5 Gallon Pail of ISO VG68 Oil	
2500548	Two 2-1/2 Gallon Container of 10W30 Oil	
2500546	One 5 Gallon Pail of 10W30 Oil	
503409	Two 2-1/2 Gallon Container of ATF Fluid	
503407	One 5 Gallon Pail of ATF Fluid	
2-Cycle Oil		
554600	Twenty Four 16 Ounce Plastic Container	
554599	Twenty Four 8 Ounce Plastic Container	
Grease		 
5000067	One 5 Gallon Pail OO-Grease	
5000068	Twenty Four 8 Ounce Tube OO-Grease	
Paint		 
5003469	16 Ounce Gray Aerosol	
554598	Six 12 Ounce Orange Aerosol	
2500789	Twelve 1 Quart Can Orange	
546409	Two 1 Gallon Can Orange	
Lapping Compound		
5002488	One 10 Pound Pail of 80 Grit	
5002490	One 25 Pound Pail of 80 Grit	
5002489	One 10 Pound Pail of 120 Grit	
5002491	One 25 Pound Pail of 120 Grit	
Specialty Compound		 
365422	5.3 Ounce Tube of Electrical Insulating Gel	
5001581	14 Ounce Can of Lubriplate Multi Lube A	
Biodegradable Hydraulic Fluid*		
5003102	One 55 Gallon Drum Jacobsen GreensCare 68	
5003103	One 5 Gallon Pail Jacobsen GreensCare 68	
5003105	One 55 Gallon Drum Jacobsen GreensCare 46	
5003104	One 5 Gallon Pail Jacobsen GreensCare 46	
4115976	One 55 Gallon Drum Jacobsen GreensCare 32	
4115977	One 5 Gallon Pail Jacobsen Greens Care 32	
5003106	Twenty Four 14 Ounce Tube Greens Care Grease	
O-Ring Kit		
5002452	SAE O-Ring Boss (3/32 ~ 2" Tube O.D.)	
5002453	Common O-Ring Kit	
5002454	O-Ring Face Seal ORFS (-4 ~ -24 ORS Tube Size)	
Right Start Kit for New Machines		
See your local Jacobsen Dealer		
On-Time Maintenance Kit		
See your local Jacobsen Dealer		

* Refer to the Operator's manual or the Parts & Maintenance Manual for the correct hydraulic oil requirements for your machine. Jacobsen offers a High Usage Parts Catalog illustrating commonly used Parts through easy to read line Drawings. See your local Jacobsen Dealer for a copy.

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